



WORLDWIDE TV-FM DX ASSOCIATION

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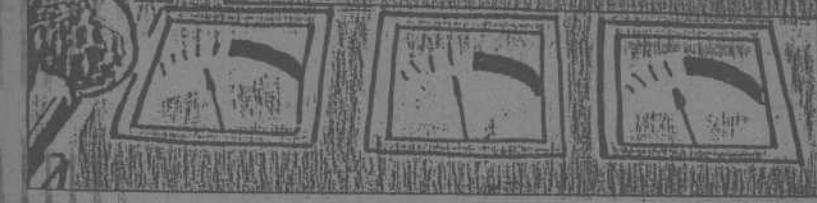
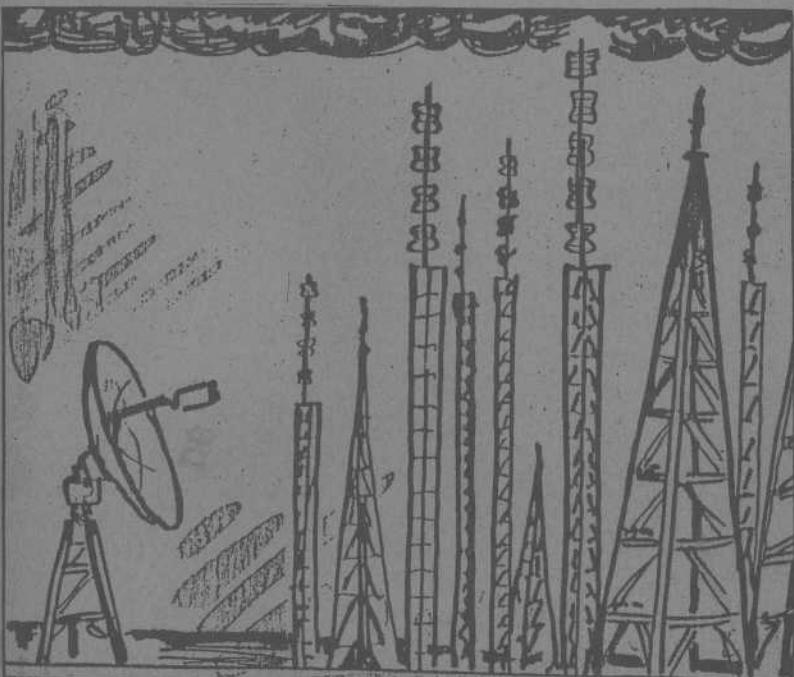
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The Official Publication of the Worldwide TV-FM DX Association

NOVEMBER 1990



From The STAFF

TROPO CONTINUES TO DOMINATE TV/FM DX...Quite a few enthusiasts are regarding the 1990 Fall tropo season to be among the most interesting ones of recent years. The openings have been numerous from East Coast to Midwestern locations, and unusual paths have opened up frequently this year. There was something of a revival in Atlantic hurricane activity in October, and the effects were seen on the VHF and UHF bands. As often happens, storm-displaced stable moist air masses caused the best activity, but there were also quite a few conventional tropo openings. With any luck, above average conditions may continue before the colder weather sets in. Most of the "good stuff" now appears to be over--but don't forget about the possibility of sudden "super" tropo openings this month. November has a well-deserved reputation for just those kind of surprises!

BEST FM DX REFERENCE IS UPDATED...FM DX enthusiasts should not be without the latest edition of Bruce Elving's FM ATLAS. Just off the presses, There's nothing to compare to this fantastic reference; no DX club, no broadcasting industry publisher, or trade group, puts out anything like it. What's made the ATLAS so valuable to DXers (in addition to Elving's reputation for the most accurate station data in print) is the maps, which allow you to pinpoint station locations during DX openings. Our advice: order the latest edition (see FCC FM NEWS) and ask for Elving's latest catalog with it--it's full of great stuff for the DXer, including selectivity and subcarrier (SCA) modification services.

WTFDA CONVENTION HOST STILL NEEDED FOR '91...As of press time, there were no serious bids for next year's WTFDA convention. Without a volunteer for next year, perhaps it's time to start thinking of '92 instead? Seriously though, it never fails to amaze us when we hear from members who claim that one convention site or another isn't "convenient" in location for them to attend, and then not hear from them when the opportunity to host the event arises. In recent years, we have often only heard from a single volunteer to host the WTFDA convention. Without such great people, there would not have been conventions to attend! In years past, we often had two or three prospective hosts, which would result in a membership vote deciding the site. If you'd like to host Convention '91, please contact us!

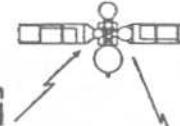
TABLE OF CONTENTS

SATELLITE NEWS: Addenda and errata.....	3
TELEVISION NEWS: Just what IS a network, anyway?.....	4
FCC FM NEWS: "WAMB-FM1" 106.7 counters Cuban AM interference in TN.....	10
QSL CORNER/LOGOS RUN: Did a Finnish DXer hear tiny CJSR 88.5?!!.....	15
TECHNICAL TOPICS: FM tuner selectivity improvements in practice.....	18
PHOTO NEWS: TV in Okinawa and the Bahamas, and DX pix from Toronto.....	22
NWS NEWS: New Weather Radio Canada outlets on in Quebec.....	26
EASTERN TV DX: "Is this what they call a 'good season'?" YES!.....	27
WESTERN TV DX: A variety of great August and September openings.....	32
SOUTHERN FM DX: E-skip from Colombia and Central America into FL.....	40
TV TIME TUNNEL: Beginning the strange saga of Fargo's ch 11.....	45
PRODUCT REVIEW: Radio Shack's "pretty good mediocre VHF antenna".....	46

Cover illustration from material submitted by Tom Bryant.

(FROM THE STAFF continues on PAGE 47...)

SATELLITE NEWS



GEORGE W. JENSEN
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I hope the resumes of the past 2 issues have been of some interest to you. But nothing remains constant in the world of satellites - so here comes the addenda and errata.

Satcom 1 - Aurora - Feeds to US should be on 21 not 20

Satcom 1 - 5 - add Cal-Span - California State Legislature
22 - Prime Sports Northwest (add)

Satcom 3 - Bravo and RAI USA move from 4 to 24
Omit Request TV2 to Satcom 4 XPDR 17
American Movie Classics and AVN move from 12 to 14
Omit the Cable Program Guide that was on 14

Telstar 303 - TVN uses XPDR 1 thru 9 also rest of menu unchanged

Westar 5 - Add - CTNA to XPDR 13
Add - Sports Channel - South VC2 - to 16
Move Caribbean Superstation to 6

Spacenet 1 - add - TV Heaven to XPDR 9
- add Check Out newscasts to KU 24 - this is the CNN news service to Supermarket Check-out Counters

Anik C-3 - definately in use for feeds

Morelos 2 - Drop?? - XEWH - Hermosillo XPDR 3
Drop?? - MultiVision - Childrens XPDR 10
?? is necessary unless they are on a tight spot beam not visible here. Perhaps Jim Pizzi has something new on this??

Anik C1 - Omit Chinese service found on 14 in the evenings.

Spacenet 3 - Add - 11 - VC2 PSN???

Satcom 4 - Add Request TV 2 VC2 to XPDR 17

Galaxy 2 - Add - Drive-In PPV to XPDR 15
Add - Spice PPV to XPDR 21 (was Rendezvous)

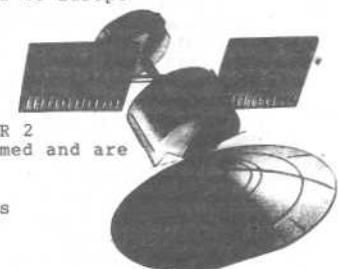
Spacenet 2 - Drop - Drice-In and Spice - move to Galaxy 2
Note - XPDR 10 is Galavision feed to Europe using PAL color format only

PanAmSat - Drop CNN Hybrid on Ku 15
- TP for PanAmSat constant on 12

Intelsat at 27.5 W - Is now V1-F4
TVE Internacional has changed to XPDR 2
Venezuelans are now tightly spot beamed and are now no longer visible here.

That's all for this time see you in 30. '73's

George



Television news

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ABBREVIATIONS USED IN THIS COLUMN:					
AATm	Height (meters) above average terrain				
AG	Antenna height above ground				
ASL	Antenna height above sea level				
AZ	Azimuth (North=0°)				
BT	Beam Tilt				
CIR	Circular polarization				
CP	Construction permit				
CRTC	Canadian Radio-television and Telecommunications Commission				
DA	Directional antenna				
ELL	Elliptical polarization				
ERP	Effective Radiated Power				
FCC	Federal Communications Commission (USA)				
HOR	measured along a horizontal plane				
MAX	In the direction or elevation of maximum signal strength				
MP	Construction permit modification				
TL	Transmitter or tower location				
+	carrier frequency offset 10 kHz above standard				
-	carrier frequency offset 10 kHz below standard				
z	carrier frequency not offset				

APPLICATIONS FOR NEW TELEVISION STATIONS					
ST	CH	ERP	AATm	CITY/APPLICANT	
AR	48	2500	342	Jonesboro; Banner Broadcasting Corporation	
CA	39	310	405	Bakersfield; Community TV of Southern California	
NY	46	63.9	206	Jamestown; Western New York Public Broadcasting Association	

APPLICATIONS DISMISSED					
ST	CH	ERP	AATm	CITY/APPLICANT	
NE	Omaha; ch.54; Omaha Channel 54 Inc.				
TN	Knoxville; ch.15; Knoxville Community Broadcasting Inc.; Lincoln Memorial University.				

CONSTRUCTION PERMIT GRANTED					
ST	CH	ERP	AATm	CITY/APPLICANT	
TN	15	2244	513	Knoxville; East Tennessee Public Communications Corp	

CONSTRUCTION PERMIT CANCELLED					
ST	CH	CALLS	CITY		
LA	44	WPFT	Baton Rouge		

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS					
ST	CH	ERP	AATm	CALLS	CITY
GA	23	3378	447	WEFL	Dalton
KY	40	699	241	WQBB-TV	Bowling Green
LA	45	786	202	KCDN	Shreveport
PA	60	12.2	231	WBPH-TV	Bethlehem
SD	12	275	259	KIID-TV	Huron
TX	47	240	178	KTAQ	Greenville

OCTOBER, 1990

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

ST	CH	ERP	AATm	CALLS	CITY
AL	34	1128	142	WDAU	Ozark
CA	61	2500	803	KKAK	Porterville
CO	53	5000	191	KWHD	Castle Rock
MI	53	1740	299	WLAJ	Lansing
NC	47	2000	186	WFXB	Rocky Mount

APPLICATIONS TO CHANGE EXISTING FACILITIES

ST	CH	ERP	AATm	CALLS	CITY
AZ	13	302	622	KOLD-TV	Tucson (cp)
AR	51	80.1	140	KFAA	Rogers (cp)
CA	19	5000	590	KCSO	Modesto (cp)
CO	9	316	280	KUSA-TV	Denver (cp)
LA	29	2507	394	KVHP	Lake Charles (mp)
MN	29	4556	373	KITN	Minneapolis (cp)

CHANGES GRANTED STATIONS ON THE AIR

AZ	Tucson; KNSB-TV, ch. 11; granted construction permit to change city of license from Nogales to Tucson. Why this needs a construction permit is beyond me. Table of assignments allocates the channel to Tucson-Nogales.
CA	Riverside; KRCA, ch. 62; granted license to cover cp for changes; see 7/90 VUD.
FL	St. Petersburg; WTOP, ch. 44; granted license to cover cp for changes; ERP remains unchanged at 5000 kw max; antenna height reduced 20 meters to 454m AAT/451m AG/474m ASL; same TL.
FL	Tampa; WEDU, ch. 3; granted license to cover cp for changes; antenna raised 157 meters ASL to 473m AAT/468m AG/491m ASL; TL 4 miles southeast of Riverview; coordinates 27°49'48"/82°25'59" (Az. 196°, 0.76 mile from former TL); same ERP (100 kw max).
GA	Cochran; WDCO-TV; granted license for changes; channel changed from 15 to 29+; ERP raised from 501 kw max to 5000 kw max; antenna height lowered 14 meters AG to 350m AAT/347m AG/463m ASL; same TL.
MD	Salisbury; WMDT, ch. 47; granted MP to reduce ERP (?) from 3470 kw max/670 kw hor to 2190 kw max; reduce antenna height 8 meters to 304m AAT/303m AG/312m ASL; Same TL; DA BT.
MA	Springfield; WGTV-TV, ch. 57; granted CP to raise ERP from 1200 kw max/776 kw hor to 1465 kw max; raise antenna 17 meters to 322m AAT/53m AG/420m ASL; same TL.
NC	Durham; WPTF-TV, ch. 28; granted CP to reduce antenna height 12 meters ASL to 585m AAT/579m AG/675m ASL; TL 1.6 miles southeast of Auburn NC; coordinates 35°40'35"/78°32'09" (same coordinates as WRAL-S; WNW 0.5 mile from present TL); ERP unchanged at 5000 kw max; BT.
VA	Roanoke; WBRA-TV, ch. 15; granted MP to raise ERP from 631 kw max/283 kw hor to 1820 kw max; reduce antenna 10 meters to 625m AAT/71m AG/121m ASL; same TL; DA BT.
WI	La Crosse; WLAX-TV, ch. 25; granted CP to raise ERP from 501 kw max to 560 kw max; same TL and antenna height (306m AAT/200m AG/570m ASL).

TELEVISION NEWS - page 2

CALL LETTER GRANTS: NEW STATIONS

ST	CH	CALLS	CITY/APPLICANT
CA	51	KVMG	Merced; Wade Axell
CA	31	KVMD	Twenty-nine Palms; Desert 31 TV Inc.
MT	20	KVME	Billings; Echonet Corp.
NC	23	WWQR	Morganton; GNOL Broadcasting Inc.
TN	15	WKOP-TV	Knoxville; East Tennessee Public Communications Corp.
TN	50	WXJP	Memphis; Kyles Broadcasting Ltd.

TECHFORUM

Several articles sent from **BILL NIENAJADLY** (Clifton NJ). From the 6/7 *New York Post*, an update on High Definition Television. "An 'all-digital, all-American' high-definition television system developed by a U.S. company has made a last-minute entry in the race to become the U.S. national TV broadcast standard. 'We are leapfrogging state-of-the-art technology,' said Mike Walker, a spokesman for the Video-Cipher division of General Instruments Corp. showcasing the new 'DigiCipher' technology in San Diego." "The [FCC] set a June 1 deadline for proposals on a 'simulcast' system that works on today's TV sets and fits into the existing broadcast spectrum. General Instruments just made it. The technologies that we've developed are proprietary technologies that digitize and compress the video signal," Walker said. "We reduce the amount of data that is transmitted, but maintain or enhance the quality of the picture. Conventional TVs would receive the standard signal, while the second signal would be broadcast and received on HDTV equipment whose manufacturers pay lucrative royalties to the owners of the technology. Other proposals before the FCC are from NHK, the Japanese broadcasting system; Zenith Electronics Corp., an international consortium of NBC with Dutch and French electronics companies and Massachusetts Institute of Technology. The systems would be tested for 12 to 18 months before the government chooses the standard sometime in 1993."

Meanwhile, the 8/21 *Newark Star-Ledger* reports on other forms of television improvement. "If Americans want to improve their television picture now, scientists at the David Sarnoff Research Center in Princeton may have an idea of vast appeal. Their Advanced Compatible Television (ACTV) system, developed at the laboratories over the past decade, offers a 30 percent improvement in the clarity and detail of a television image. Technically speaking, ACTV is not a [HDTV system.] But ACTV adherents say that the technology could be brought to the American public long before HDTV systems are created and implemented. In addition, Sarnoff engineers have devised a way to squeeze an ACTV signal within the standard [NTSC] signal currently being broadcast over the airwaves so that today's television sets are unaffected and only special ACTVs can decode the information." "The FCC is expected to pick a standard in 1993, but [Sarnoff Research Center president James] Carnes believes it will take much longer to work out the details of a new system before American television viewers will actually be watching HDTV in their living rooms. Proponents of HDTV systems disagree with Carnes, saying that once

NOVEMBER, 1990

the FCC makes its decision, the transition to HDTV will take place quickly."

"ACTV falls into the category created by video experts known as enhanced definition, or EDTV, which is viewed as the next step in the evolution of TV technology after today's brand. It requires modest improvements in today's TV transmissions and small changes in the broadcast standards. The improved signal is compatible with today's TV and it will not carry so much additional information as to require greater bandwidth than is available in today's 6-megahertz TV channel." "The decoder in an ACTV television receiver processes the transmitted signal, separating the components and reconstructing the original wide-screen image on the television display. Digital audio information also would be encoded into the signal."

Even more technology in the 8/22 *Star-Ledger*: "Some day in the future, long after the critical decisions about high-definition television (HDTV) have been made, Julie Bellisio [manager of video systems research for Bellcore] believes the real revolution will come. That's when a national fiber optic network connecting every home, office and public building in the country will make possible an 'Information Highway.' And if most homes contain a high-definition television, as he believes they undoubtedly will, a fiber-linked national HDTV system will make the possibilities endless."

"In October 1989, Bellcore researchers working in Livingston conducted an experiment that proved the feasibility of economically transmitting digital HDTV signals over 'broadband' fiber optic networks. They did so by transmitting and receiving a 'compressed' digital HDTV signal over more than 25 miles of fiber optic cable with no loss in picture quality." "In Bellcore's demonstration, an analog HDTV signal is converted into the digital language of electronics and computers producing an information rate of about 622 millions of bits a second. The digital electrical signal is then converted into light and transmitted through the fiber. At the other end of the fiber, the process is reversed."

U.S.A. FORUM

What is a network? You might answer, "Uh, it's like, you know, uh, like the big three, like, you know, ABC, CBS and NBC." Maybe, "It's an interconnection of affiliated broadcast stations engaged in the transmission of material produced and derived from a common source like you know, ABC, CBS and NBC."

In a sense, if you produce a program and air it over more than one station, you have a network. And a lot of people are eager to use that term for the status it brings, even when they have such a minuscule operation.

In order for the FCC to regulate the influence that networks have over television stations, it became necessary to define exactly what a network is. We see such definitions in *Code of Federal Regulations*, Title 47 (Telecommunication), Part 73 (Radio Broadcast Services), Subpart E (Television Broadcast Services). Section 73.658 (d) (1): "(v) 'Network' means a national organization distributing programs for a substantial part of each

broadcast day to television stations in all parts of the United States, generally via interconnection facilities." "(vi) 'Unaffiliated network' means a network not having an affiliated station...in a particular market, even though it may have other types of agreements or programming arrangements." Elsewhere in this section mention is made of "the three national television networks."

But a more specific definition is needed to regulate network syndication and program practices. Hence Section 73.658 (j) (ii) (4): "For the purposes of this paragraph and paragraph (k) of this section the term network means any person, entity, or corporation which offers an interconnected program on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." So what is our list of minimum criteria? (1) interconnected, (2) 15 hours a week, (3) 25 affiliates, and (4) 10 states.

Now, how many networks do we have by this definition? Three so far, like, you know, ABC, CBS and NBC. We could include PBS, but section (4) reads, "Nothing contained in this paragraph shall be construed to include any television network formed for the purpose of producing, distributing, or syndicating program materials for educational, noncommercial, or public broadcasting exhibition or uses." There have been other attempts, for example, Home Shopping Network. Home Shopping has the hours, but not the affiliates. The most popular attempt to date is the Fox Broadcasting Network. It has the stations, the states, and the interconnection, but not the hours. At least not yet.

Before we get back to Fox, let's make a distinction between network affiliates, network and program producer. The television station, even if co-owned by a network owner, is an affiliate, and has the right to pre-empt network programming. The network may make its own programs, which it does, particularly news programs and documentaries. But most of your entertainment programs are from other producers, such as Paramount, Viacom, MGM/UA. The networks will buy broadcast rights of a program from the producer if it can find the advertisers to support the program. The producers either sell a program to the network, or put it into syndication, in which case any television station, affiliated with a network or not, can purchase broadcast rights and find its own advertisers.

Now let's look back at this clause, "and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." We have Fox affiliates, Fox stations, Fox network, and Fox programs. How are they related? Fox Broadcasting Company is the network, and makes contracts with the affiliates to provide programming through an interconnection. Fox Television Stations Inc. is the direct owner of seven Fox television stations, which are also affiliated with Fox Broadcasting Company. Twentieth Century Fox Film Corporation creates

the actual programs. (If you don't believe me, check the small print on your *Simpsons* T-shirt.) All three are owned by parent company Fox Inc., which is itself, I believe, owned by Rupert Murdoch, a former Australian who bought out Twentieth Century Fox, TV Guide, and became an American citizen in order to purchase television stations in the United States. Once Fox expands its network lineup to the 15 hour minimum, it will also become a network by the above definition. And that clause would group Fox Inc. and its three subsidiaries into one network.

The FCC has a law that networks, as described above, are not allowed to sell syndication rights of its own programs, which they had produced themselves, to unaffiliated stations. Nor are networks allowed to purchase any rights from a program producer except the right to air that program over its network. Presently Fox is producing its own programs and syndicating some, such as *21 Jumpstreet*, to other stations, even in the same market as Fox affiliates. But once Fox expands its lineup to 15 hours, it legally becomes a network, and would be prevented by law from syndicating its own programs without special FCC authorization.

With that in mind, I proceed to this article from the 7/4 *Philadelphia Inquirer*, written by Michael Hill of the *Baltimore Sun*: "Financial interest and syndication rules don't sound like fighting words, but in certain Hollywood precincts they are enough to make Gucci-loafered types break their bottles of designer water and come out slashing."

"However, the bigger fight is being waged in Washington, where the [FCC] is considering a change in long-standing regulations that limit the number of shows that ABC, CBS and NBC can own. The FCC is also weighing a change in the rule prohibiting the networks from syndicating shows — selling their reruns to local stations across the country."

"The rules were adopted years ago, when there was little on television but the Big Three. The idea was to prevent a network stranglehold on the medium, which could be accomplished by their broadcasting only the shows that they produced. That type of monopoly is known as vertical integration."

"Nowadays, the network argue it's a different world. With all the cable channels, with the burgeoning number of independent stations, with satellite technology that allows the instant creation of a network, it's ridiculous that the Big Three are handicapped by these rules. They have a point. Paramount can create a network for *The Arsenio Hall Show* every night and for the new *Star Trek* every week, just as King World can for *Oprah* every day, just as Viacom does for the reruns of *The Cosby Show* every afternoon."

"Those studios get to own the shows and participate in the syndication profits of any other shows they produce. So why can't the networks, which essentially are in the same business, do the same? Well, the producers point out, the networks still dominate the medium. Producers still want to get their series, or movies, or other productions on NBC, ABC or CBS. Imagine the tyranny that could result if the

industry were deregulated. They've got a point, too. NBC could say to some producer, 'OK, you want the Thursday night time slot, then sell us 20 percent of your show for a bargain price.' CBS could say, 'You want to get this show on the air? Only if we get a piece of the syndication action.' and so on."

There is a tendency to dismiss the dispute as something akin to the baseball strike — a bunch of rich people squabbling over huge pieces of a gigantic pie. If reason would prevail, there would be plenty to go around for all. Reason has not prevailed thus far. Last month's FCC deadline passed for the two parties to reach a compromise. To no one's surprise, they failed to do so. As a result, the FCC will probably rule by the end of the year."

The situation that brought on these regulations definitely has changed. The networks no longer have a stranglehold. But they are still by far the most powerful television outlet."

Another legal battle took place in the Supreme Court, as reported by the 6/28 *Philadelphia Inquirer*: "Holding a surprise victory to advocates of affirmative action, the Supreme Court yesterday approved government preferences for racial minorities to achieve greater diversity in radio and television programming. In a 5-4 decision, the Justices concluded that the Constitution's guarantees of 'equal protection of the laws' allow favored treatment for minority broadcasters as approved by Congress."

"The court's ruling covered two cases. In *Metro Broadcasting v. FCC*, a case from Florida, the Justice allowed the [FCC] to give special, favorable consideration to a Hispanic-owned television station in Orlando. In *Astroline Communications v. Shurberg Broadcasting*, a case from Connecticut, the court upheld the commission's distress-sale policy, which lets a broadcaster faced with the loss of his license sell to a minority-owned business at 75 percent of the station's market value. The ruling is a victory for a Hispanic-led company in Hartford."

Another piece of news from the 10/4 *Philadelphia Inquirer*: "WYBE-TV (Channel 35), our town's new PBS station, is about to increase its programming from four to seven hours nightly. Since its June 10 launch, YBE has been on the air from 7 to 11 p.m. As of Monday, the lineup will run from 5 p.m. to midnight, featuring public-affairs programs, independently-produced films and whatever PBS stuff the station can get for free. Total first-year operating budget for general manager Aaron Ezekiel and his staff of seven is just \$450,000. The Roxborough-based YBE, not carried on any area cable systems, will have its first fund-raiser Nov. 8 through 18. Goal: \$40,000." I read elsewhere that WYBE's fundraiser was scheduled to come just before WHYY-12's.

And for more of the latest in television technology, again by way of BILL NIENAJADLY, we go to Ethridge, TN and the 8/22 *New York Daily News* (in the humor section of the news; it also appeared in the *Philadelphia Inquirer* the same day, via Associated Press): "When folks in this rural county miss Junior's Little League catch or choir practice, they can call Sarah Evette and have her play the video on her request TV sta-

tion. That's the way Evette runs 10-watt W10BV in south-central Tennessee's Lawrence County, about 100 miles south of Nashville. The station's prime time lineup depends on footage of birthday parties, church programs, school buggies and a local history show called 'A Peek Into the Past.' 'People'll call me up and say, "Sarah, put on that tape of my young'un in that ballgame,"' said Evette, the station's 66-year-old owner, program director, camera operator and technician. (The *Inquirer* adds, "Then they'll call me back and bless me out because I didn't catch their kid's good side.") "WBFL Run as a hobby, W10BV doesn't offer sitcoms, game shows or advertising. It simulcasts the old-movie fare of a UHF station in Florence, Ala., until 8 p.m., when Mrs. Evette signs on."

"She had trouble getting [FCC] regulators to approve a location for her transmitter until she submitted the coordinates for her home. The transmitter, a metal box about the size of a portable television, sits on a shelf in a cluttered basement room. She estimates her 110-foot tower sends a signal to an area 22 miles by 8 miles. The programs go out with no editing of bloopers and no identifying title or names. 'We don't have to. Shoot, everybody knows who we are,' she said."

JEFF KRUSZKA (Harahan LA) sent this from the 9/1 *Times-Picayune*, about a 24-hour news and information commercial television station. "The Tourist Channel is available to anyone who can pick up its low-power signal on Channel 55, but it's directed at visitors." "The Tourist Channel, which goes on the air today, is the creation of two Alabama men who run a similar station in Orlando, Fla...." "The Orlando station, available in 42,000 hotel rooms, reaches an estimated 88 percent of Orlando's 20 million annual visitors...." "Special antennas at hotels and motels in Orleans and Jefferson parishes will pick up the signal and switch it to a low-numbered channel on the hotels' TV systems." Jeff adds, "No sign of this station here in Harahan yet."

JAMES NAHIRNIAK (Warren MI) cautions that anybody seeing WJBK-TV (ch. 2, Detroit) identifications on channel 38 is actually watching WADL-38 in Mt. Clemens MI. "WADL-38 is currently repeating Channel 2's 5pm newscast at 8-8:30 pm, and channel 2's 6pm news from 9-9:30. In addition, the 11pm news is simulcast on both stations. The two stations are involved in other business ventures as well." "According to an article in the DETROIT NEWS, the cooperation began when channel 2 was looking for a way to relay signals from its remote news units from northern and eastern Macomb County, and Channel 38's new tower was an ideal relay location. I wonder if channel 38 will begin running CBS programs not carried on channel 2. Currently, the CBS late night offerings are seen locally on WGPB-62."

"I believe that I read in a past issue of your column that Weigel Broadcasting in Milwaukee owns full-power WJDT-58, as well as LPTVs or translators in the same market. If this is true and legal, it seems to me that it would be a good business move for a full power network affiliate to operate a LPTV, using their existing tower, staff, and equipment. The LPTV would be

programmed with repeats of newscasts, programs that the main station owns but is not currently using, and network programs that they don't run. If a full power station cannot own the LPTV, they could work out a business deal like channel 2 & 38 have done. In Detroit, WDIV-4 would be an ideal candidate for such an arrangement. They pre-empt so many NBC programs for Tiger Baseball, local programs and movies, that NBC is looking at buying WJBK-2. This rumor surfaced again recently after NBC sold controlling interest in WKYC-3 Cleveland, allowing them to buy another station."

FRANK ADEN (Boise ID) reports, "KIOMY and K43BE are now running 'VIDEO JUKE BOX' and actually running local dual ID's!"

Also from Frank, this article from the 9/27 *Oregonian*: "...there are plans for still another Portland television station to go on the air next year. Portland is served by five commercial stations, a station that's just about all commercials out of Salem, a public station and a religious television broadcaster. And that's not counting what more than half the population has in the way of cable. It's a crowded field."

"KCFV will operate on UHF Channel 40. Steve Whitehead, general manager of KCFV, would not say when the station plans to be on the air, only that it would be some time next year. 'We plan to operate as a locally oriented, family oriented, independent television station.' (Translated into English, that means syndicated reruns and public-domain movies. -wbf)

Channel 40 has been allocated to Portland by the FCC for several years, but plans to put the station on the air were postponed when KPDX (49) started broadcasting in 1983. It is conventional wisdom that the advertising market cannot absorb more than one new station at a time.

"News that there was some activity with the channel came this week with the announcement by Star Television Network [See John Ebeling's report, to follow. -wbf] that it would begin a national network service linking some 30 cities on Saturday. Star plans to broadcast old television series, movies and 'infomercials' — program-length direct response commercials. Stations in this group will have access to all of Star's programs provided they carry four hours of the infomercials each day."

"Portland was listed as one of the initial 30 stations, but Whitehead said the Dec. 1 startup date listed by Star was in error." "...KCFV has yet to acquire a transmitter or an antenna site. 'We're negotiating for all that,' Whitehead said."

Several articles from various issues of the monthly *TV Technology* come by way of **TOM YINGLING** (Dundalk MD). One article reports that WNET, PBS channel 13 in Newark NJ launched a SAP (Separate Audio Program) called Thirteen FM, which "offers a wide range of audio enhancements to Thirteen programming, including descriptive narration and simultaneous language translation, to viewers who have access to a stereo television."

Another article discusses channel 27 in Portsmouth VA: "When Centennial Communications bought WYAH-TV channel 27 from Pat Robertson and the Christian Broadcasting Network, the com-

pany launched a full-blown media campaign to shed the station's new name, WGNT-TV. WGNT-TV turned to Norfolk based ad agency Davis & Phillips, which developed the 'We're Changing The Channel' campaign to promote the station's new image, ownership and programming through on-air logos, graphics, music and promotional activities. 'At a time when viewers are choosing to watch individual programs and not stations or networks, the reworked '27' is being merchandised for today's television viewer,' said Steve Bullock, agency account executive.

This article on must-carry rules for cable television: "The battles are continuing in Washington to find a broadcast industry and cable industry compromise on must-carry legislation. But there appears to be little hope in sight. Congress seems to be in a regulating mood when it comes to cable. (Isn't it always? -wbf) Senator John Danforth (R-Missouri) is getting ready to introduce a bill that would regulate cable systems nationwide." "Many broadcasters would also like to see legislation introduced to restore the so-called must-carry rules, in which a cable system must carry all local over-the-air broadcast signals. Broadcasters would also like to see copyright laws changed that they say too often favor cable systems. Broadcasters complain that some cable systems do not carry all of the local channels in favor of satellite networks. They also complain that many of the over-the-air channels carried are not carried on the favorable low-channel numbers, such as 2-13 on most systems."

How are LPTV stations doing in the ratings systems? "More viewers are watching their low-power television station, according to statistics provided by A.C. Nielsen and Arbitron, the broadcast rating services. Nielsen requires that a station show at least a 2.5 percent share of viewership between 7 a.m. and 1 p.m. to be included in its surveys. Currently, 18 LPTV stations are credited in their home market reports and an additional 179 could show reportability in the near future. Since 1986, 209 markets measured by Arbitron showed a 300 percent increase in viewership of LPTV stations. The statistics were released at the second annual LPTV conference and exposition held in Las Vegas.... What allows LPTV stations to compete with network affiliates and independents is their emphasis on local programming...."

This other article gives more insight into the progress of LPTV. "In June [1989], there were 665 licensed LPTV stations in the United States. About 240 of these were in Alaska, used mostly for an educational network. Trinity Broadcasting operates about 100, strictly as translator stations, and others are run as subscription TV services, as translators for other LPTVs, by the Public Broadcasting Service and by various colleges and universities. In addition, there are more than 200 'true broadcasters' generating their own community-oriented programming.

"John Kompa, president of the Community Broadcasters Association (CBA) in Milwaukee, estimates there are about 15 new LPTV stations coming on-line each month."

"Because about 72 percent of the LPTV

stations are privately-owned, it is difficult to gauge the overall economics of the industry. But Kompa said public companies like Channel America and Video Jukebox Network are doing well." Kompa said the biggest concern of LPTV operators is the second class status that has been imposed upon the service. "Many of our stations are operating in the public interest, broadcasting a minimum of 14 hours per week of local programming," he said. "Our strength is in localism, and it is absolutely ludicrous for our stations to be thought of as second class in any way."

"Channel 54, W54AF, serves an area of about 35 miles around Bucyrus, OH, about 60 miles north of Columbus. Bill Allones, partner and general manager of Allones Communications, said his LPTV has filled a niche by broadcasting local news, talk shows, high school sporting events and a variety of syndicated programs. 'Just because Columbus, Cleveland and Toledo stations are received in our county, we don't see our own news,' he said. 'So there is a need for our service.' Allones believes the most successful LPTV stations are located away from the big markets where they can better serve local broadcasting needs."

Operating an LPTV station in a Top 50 market also presents many challenges. Bob Lyons, general manager, of Channel 8, WOBV in Columbus, said competing against three full-power affiliates and an independent dictates what you will be and who you will be to survive." "The advantage of being in a big city market is the large number of businesses and ad agencies located there, Lyons said." "Rural LPTV stations have fewer potential advertisers, but also less competition for ad dollars, he said."

RONALD PURDUE (Byron MN) reports that KXL-47 Rochester MN is back on the air after being off for nearly two years. Programming consists of "TV Heaven" programs which Ronald describes as "bottom-of-the-barrel," and paid commercial programming.

More on TV Heaven from **JOHN EBELING** (Bloomington MN), from a local paper dated 9/29: "If you want to go to 'TV Heaven' you'll have to unlock your cable first. At least for the time being, no cable system in the Twin Cities area is clearing space for 'TV Heaven 41,' also known as KXL-1 TV, which is scheduled to resume broadcasting at 2:30 p.m. today after an absence of nearly two years. In its new incarnation, the St. Cloud-based independent station won't be an isolated oasis of old TV series but, rather, part of a 'TV Heaven' network of UHF stations.

"After KXL-1 ceased operation in December 1988, its owner, Dale Lang, rethought the 'TV Heaven' concept and decided it would be more feasible financially if a whole string of stations carried the cleverly repackaged old TV series, reducing their operating costs in the process. Lang formed STAR Television Network, based at Universal Studios in Orlando, Fla., and began lining up independent stations to receive STAR's programming via satellite. The 30 stations that have signed up so far will receive 22 hours of programming daily, with the option of carrying all of it or as few as four hours.

"The new 'TV Heaven' differs from the old in a

couple of ways. One is that instead of themed nights, the new service will have themed day parts, including an afternoon game show bloc, a Western hour every day at 6 p.m. and a 90-minute comedy bloc at 9 p.m. The other, more significant, difference is that the oldies will share the schedule with what STAR Television calls 'direct response infomercials,' which are program length (and program-like) commercials aimed at getting the viewer to dial an 800 number and order merchandise."

Now we know where all those old syndicated programs go when they finally die. They go to TV Heaven.

John also adds, "Looks like the shopping channels 62 and 07 have died. Nothing seen on either channel for several months now. At the end of activity, ch 62 was running the audio of WLOL-FM."

KEN OLYNSCHUK (Riverdale IL) reports, "...an NRC member from West Suburban Naperville...told me about a new TV station that's on in August. Ch. 30 WFXV Piano, Ill. It will serve the local Aurora area w/a 25 mi radius." "Heaven't seen it yet - or read about it. Just tied for it. Not a sign of a signal. I'm about 42 mi. E of Piano. Need some help here." If there is such a station, it's LPTV, and WFXV wouldn't be its real call letters. Nor is it likely to reach a 25-mile radius.

A few articles from **BRUCE ELVING** (Eeko MN). The 5/6 *Dallas Morning News* describes yet another LPTV operation. "Harry Tootle wants to own a television network.... Mr. Tootle says he can do it by owning several inexpensive low-power television stations." "Tootlevision Broadcasting went on the air April 13, becoming Tulee's first 24-hour, non-religious television station. It featured talk shows, old movies and sports. But 72 hours later, lightning struck the station and knocked it out for what Mr. Tootle hopes will be only 60 days. And not being easily discouraged, Mr. Tootle also hopes to launch another station in that time." "...you only need a 100-watt transmitter, which costs as much to run as an air conditioner in your house," he said. To run his station, seen on Channel 33 in Tulee, Mr. Tootle tapped a variety of resources. He bought old equipment from traditional television stations and developed some of his own electronic equipment. He operates programming on a personal computer. His operating cost is \$50,000 per year."

"One of my favorite examples of what people can do with LPTV occurred in a small town in Arizona," Mr. [John] Kompa [president of Community Broadcasters Association] said. "The school board president was running against the mayor for the mayor's position. The election got clouded with a lot of mudslinging. The LPTV operator got this crazy idea and invited the board president and mayor to a mud-wrestling match. Mud wrestling. You know what kind of ratings that had?"

More from Bruce Elving, Larry Fuss, Tom Yingling and Dave Sinclair next month, I hope. My disk drive just started making squeaking sounds.

New FM Station, Translator Grants

AL Fort Rucker 93.1 3000 h,v; 100 m, Sky Way
 AZ Tucson KCDX-2 105.3 20 w booster of
 Kearny station on 105.1 (but moving to
 105.3)
 AZ Tucson-Mt. Bigelow KCDX-1 105.3, 20 w
 AR Clarksville 106.9 3000 h,v; 100 m, J. L.
 Richardson [Chicago IL, via satellite]
 AR Jonesboro K206AB *88.1 (WMBI-FM 90.1/
 CA Lindsay 103.3 530 h,v; 229 m, L. Bestg.
 CA Morro Bay 89.7 450 h,v; 289 m, M. B.
 Investment Co. [Star Communications
 CA Rohnerville 100.5 160 h,v; 525 m, North/
 CA Santa Maria K21A8F *91.5 (WMBI-FM 90.1
 Chicago IL)
 CO Alamosa K207AD *89.3 (WMBI-FM)
 CO Lamar K207AC *89.3 (WMBI-FM) [J.
 Lamone]

FL Five Points 106.5 3000 h,v; 100 m, Carol/
 FL Panama City W202AB *88.3 (WMBI-FM 90.1
 Chicago IL)
 GA Albany W202AB *88.3 (WMBI-FM) [Ltd.
 GA Jeffersonville 97.5 3000 h,v; 100 m, ALP,
 GA Waynesboro WAGW 107.1 3000 h,v; 100 m,
 Clifford Jones [Brandt Bestg.
 IL Christopher 103.5 5000 h,v; 100 m/
 IL Farmington 95.7 3000 h,v; 100 m, R. M.
 Mason [Metro Media of KY
 IL Golconda 105.1 3100 h,v; 137 m/
 IL Kankakee 91.1 1800 h,v; 93 m, K. Com-
 munity College [Kant Lankford
 IL Newton 106.9 3000 h,v; 100 m, S/
 IN Blackwell 105.7 3000 h,v; 100 m, R. M. Mason
 IN Greenwood 106.7 3000 h,v; 100 m, Greater
 Greenwood Bestg. [90.1 Chicago IL)
 LA New Iberia K123A-E *90.5 (WMBI-FM/
 MI Whitefish 102.5 1700 h,v; 130 m, Pyramid
 Bestg. [m, Radio Ingred.
 MN Deer River KXGP 105.5 1000 h,v; 149/
 MN Lakeville 105.1 1100 h,v; 147 m, Southern
 Twin Cities Area Radio [m, Minn Publ. Radio
 MN St. Peter #15.5 8500 vertical only]; 183/
 MS Columbus 94.9 29500 h,v; 150 m, Golden
 Triangle Radio
 MS Lucedale 106.9 3000 h,v; 84 m, Allen Bestg.
 MO Cassville 100.1 1000 h,v; 151 m, the
 Wedders [90.1 Chicago IL)
 MI Kirksville K124AE *80.7 (WMBI-FM/
 MO Ozark 92.9 3000 h,v; 100 m, Dorothy S.
 Lemmon [Telecom. Comm., to be \$/
 NE Bassett *90.3 10000 h,v; 394 m, NE Ed./
 NE Chadron *91.8 8400 h,v; 103 m, NETC, \$
 NE Merriman *81.5 10000 h,v; 294 m, NETC, \$
 NE North Platte *81.7 16400 h,v; 18100 h,v; 257 m,
 NETC, \$ [WSKG Public Telecomm.
 NY Oneonta *91.7 6800 h,v; 2800 v, 146 m/
 OK Byng 100.1 50000 h,v; 150 m, Central OK
 Communications [Eads Bestg.
 OR Brownsville 102.3 350 h,v; 283 m/
 OR Gleneden Beach 100.7 8400 h,v; 357 m,
 Stephanie Lim
 PA Harrisburg *88.1 260 h,v; 66 m, Temple U.
 PA Mountain top 97.1 3000 h,v; 100 m, Fairview
 Communications [m, Prospect
 Communications
 TN Lawrenceburg 97.5 1800 h,v; 128/
 TN Smyrna 94.1 13000 h,v; 100 m, S. Bestg. Corp.
 TX Huntsville 94.9 3000 h,v; 100 m, Helen M.
 Casey [WMBI-FM 90.1 Chicago IL)
 TX Paris K209AH *89.7/ [Foundation
 VA Marion 91.8 3200 h,v; 454 m, VA Tech./
 WA Seattle #1ki Beach K201-1 *88.1 (KPLU
 88.5 Tacoma), on air. "Alki Point in West
 Seattle is down a steep bluff on the water-

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Contributions earnestly solicited!

front and needs this along with the KISW
 99.9, KZOK-FM 102.5 and KIRO-TV 7
 translators to get clear signals."

WY Cheyenne K204AC *88.7 (WMBI-FM 90.1
 Chicago)
 ON Toronto 92.5 8950 h,v, to be \$, Rewco
 Ltd., one of 11 applicants for this frequency.
 With CFGM 100.4 AM going to "hard rock"
 from country, the CRTC reasoned there is a
 need for a country FM station in Toronto.
 Lesser Milestone Communications, Ltd., has
 appealed the decision, contending a station
 for blacks is more needed. "As blacks we may
 be visible, but unhappily we are used to being
 overlooked."

Temporary Station

BC Vancouver VFN-99.1, mono, with simul-
 cast of CBC-TV audio coverage of the
 Molson-Indy Cart Race, 10 w, intended for
 race patrons only. Local reporter was able to
 find a few spots "32 km away in the pickup."
 K217AY 91.3 Orcas Island covers Vancouver
 quite well, so this reduced its coverage.
 Station only on during actual race; otherwise,
 carrier off. No calls heard. I got the prefix
 from the DOC, but forgot the four numbers
 afterward."

Call Letters Assigned

AL Decatur *91.7 WYFD (WBOM)
 AL Florence 96.1 WXF1
 AK Anchorage 92.9 KWQJ
 AR Lowell 101.9 KSK
 CA Burney *89.7 KNC4
 CA Ford City 102.1 KZPE
 CA Fort Bragg 96.7 KZPB
 CA Indio 102.3 KRCO
 CA Lakewood 98.3 KXKX-FM (KXBX)
 CA Sacramento *88.9 KXJZ (KXPD)
 CA San Luis Obispo 97.1 KWQH
 FL Bonita Springs 96.1 WRXX-FM (WRXK);
 AM is in North Fort Myers
 FL Mount Dora 107.7 WMGR (WJYO), "Magic"
 FL Palm Bay 96.5 WJK [er 102]
 GA Augusta 102.3 WOPW (WGUS-FM), "Pow-
 GA Blakely 91.2 WDKZ (WBKK-FM), still k
 GA Gordon 107.1 WMRW (WYGO-FM)
 GA Griffin 97.7 WQUL (WKEU-FM), o, *87.7
 Kool FM,"SMN Kool Gold, ID with
 Jonesboro
 GA Ocilla 98.5 WS1Z-FM
 HI Wailuku 95.1 KAIO-FM (KA0I)
 IL Carlinville 95.8 WCNL
 IN Anderson 99.7 WQME; out of sequence, FM
 Attn-13, p. 108
 IN Lebanon 100.9 98 WBCI)
 IN South Bend 106.3 WGR
 IN Terre Haute 88.5 WXF
 IA Des Moines 93.3 K10A-FM (KDZW), simul-
 cast with 94.0 AM. "This is the third FM/AM
 simulcast combination in the market—
 effectively giving it three fewer stations."

IA Eldora 99.5 KAGA
 IA Georgetown 96.7 KHFI (KQFX). Before call
 change was approved gave an odd ID: "KQFX
 Georgetown [brief pause]. K-96.7 is KHFI
 Austin."

IA Kenney 92.1 KTNR (KQCR calls not used)
 KS Topeka 107.7 KMAJ-FM (KMAJ)
 KS Wellington 93.5 KWME (KZED)
 LA Alexandria 93.9 KWQI
 LA Arcadia 92.5 KWON
 LA Erath 107.7 KXKW (KRAR)
 LA Vivian 95.7 KNQB-FM
 ME Fairfield 93.3 WEZO (WUMH)
 ME Thomaston 106.9 WAVX
 MD Bel Air 107.1 WDLE-FM" (WDLE-
 FM), but station is silent; may be bought by a
 former employee [h,v; 32 m
 MA Amherst 100.9 WNRX (WHCI), to 6000/

FCC—FM

VF Sunderland 95.1 WJAN
 VA Chase City 99.9 WFQX
 VA Cameo 97.4 KWQM
 VA Dishman 106.5 KWOL
 VA Goldendale 102.3 KZPC
 VF Clarkburg *90.1 WZWA
 VF White Sulphur Springs 93.3 WXMDO
 WI Brillion 96.3 WEZR (WLWR)
 WI Lancaster 97.7 WGLR-FM (WALR), to 3900
 h,v [22 m]
 WI Spooner 106.3 WXMG
 WI Sturgeon Bay 99.7 WHET (WOZZ)
 NS Halifax (Bedford) 96.5 CIEC, "96.5 Sun
 FM," and owned by Arthur J. Hustins, Jr.,
 with its easy-listening automation system
 computer controlled by touching a color bar
 on the screen

See Also October VUD For:

AR Barling KOLX 94.5 Q1 dies 94, Bugej, p. 15
 AR Yelville KCTT 97.7 need to know if this
 station has stereo—Fela, p. 16. I also asked this
 question on last month in response to Alvin's report
 in Sept. (p. 10). [Pugh, p. 22]
 CO Alamogordo KALO 93.5 K93.5/
 FL Fort Myers WAYJ *88.7 1X, 67, Ebeling,
 IA Eddyville KKSI 101.5 Kfar FM, Ebeling, p.
 20; has stereo [p. 21]
 KS El Dorado KBUZ 99.1 K-Buzz, Coniglio,/
 KS Ida KILO 98.3 WJAH with Chanute, Fela, p. 16
 KS Learned KYSG 106.8 may have moved to
 105.9, Alvin, p. 20. No indication from the FCC
 this might happen. This would be a good station
 for others in the area to try to check on. If so, I'd
 like to know if it has stereo and its format.
 LA Columbia KCTD-FM 103.1 Oldies 103 (from
 "Gospel 103"), Fela, p. 16
 MI Baraga WXLN 104.3 in stereo and what's its
 music format? Hall, p. 17
 MI Harbor Springs WLTO 103.9 rk, \$, Config/
 MI Hastings WCHB-FM 100.1 K, Coniglio, p. 21
 MI Tawas City WDBI 107.3 (from 101.7),
 "Around the Dial," p. 20 [p. 21]
 MI Traverse City WDLR 101.9 mr, Coniglio,/
 MS Jackson 96.3 has new calls, WDX (from
 WSLI), Allen, p. 23; similar to former 820 AM
 calls
 NE Hastings KCNT 88.1 on air (Allen, p. 23), but
 its signal is so poor! doubt it is anywhere near its
 2300 h power; almost unreceiveable in nearby
 Grand Island NE
 NY Montauk WBMK 104.7 off air, Sprachman,
 p. 6, Note East Hampton 96.7 is without call
 letters. It won't be WVEH, and could be a long
 time a-bull di n".
 NY Oswego WZOS 96.7 is a, rm, Coniglio, p. 21
 NC Edenton WBX 100.1 sg, same calls, Sittel, p.
 25 [Kirby Radio], Laun, p. 22
 NC Elizabeth City WKJX 96.7 96-X (from/
 NC New Bern WIKS 101.9 K102—same non-ID
 as WCKZ 101.9 uses, Laun, p. 22.
 NC Plymouth WPK-FM 95.9 96 Country,
 Sittel, p. 25 [FM 104.7], Laun, p. 23
 NC Tarboro WCAS (was WAZD), "Class/
 NC Windsor need to know if WDRP 98.9 has
 stereo, Laun, p. 22
 OH Nelsonville 107.7 I list calls as WSEO, not
 WAIS, and need to know if it has stereo,
 "Around the Dial," p. 19
 OK Okmulgee KTKH 94.1 ID with Tulsa,
 Buntin, p. 25
 OK Tulsa KVOD-FM 98.5 I list as 98 Country,
 but might have changed to "Country 98?"
 Bugej, p. 15
 SC Mullins WCI 107.1 "Hot 107," a format,
 Sittel, p. 24, Add to FM Attn-13, p. 186—is \$,
 100, 3000 h,v.
 TN Oliver Springs 98.7 add WXVO calls to FM
 Attn-13, p. 124. See "Around the Dial," p. 20.
 TX Texarkana KKYR 102.5 is Bugej's mystery
 station. Note format change to k, p. 15.
 VA Bridgewater WRDJ-FM 105.1, o, "Around

KU55 on air? On 105.9?

the Dials," p. 20, and change from WA in FM
 Atas [k, "Around the Dials," p. 20]
 VA Cedar Bluff WYRV-FM 107.5 is mono,/
 VA Rocky Mount WZBB 99.9 B-99.9, but what
 is its format and is it stereo? Sittel, p. 25.
 VA Woodstock WAZR 93.7 mono, remove
 stereo listing, "Around the Dials," p. 20
 "K-94," Bugej, p. 15

Facilities Changes Granted

AL Haleville WJBB-FM 92.7 100 m (3000 h,v)
 AL Tuscaloosa WTUG 92.9 (from 92.7) 12500
 h,v; 259 m
 AR Lake Village KUZZ 95.9 6000 h,v [m, C1]
 AR Monticello KHM 93.5 3200 h,v (104 m),
 adds vertical polarization
 CA Long Beach KLN 88.1 3000 h,v; 129 m
 CA McFarland KSVU 102.9 25000 h,v (100 m),
 B1, still mono
 CA Pleasanton KSAAN-1 94.9 300 h—may result
 in deletion of KSAAN-2 Walnut Creek and
 KSAAN-3 Danville, as the newly-improved
 KSAAN-1 will serve all three areas
 KSOL-1 107.3 300 h
 CA Quincy KQNC 102.1 (from 101.9) 1800 h,v;
 645 m, but so far "no sign of KQNC on
 102.1," even though Spring Hill's been
 moved (see below)
 CA Riverside KUCR 88.1 1750 h,v; 89 m
 CA San Jacinto KWRP 96.1 160 watts h,v; 464 m
 CA Shingle Springs KLIQ 101.9 (from 102.1)
 4100 h,v; 252 m, B1
 CA Tamecula KRTM *88.9 2450 h,v; 100 m
 CO Carbonell KDNK *80.5 2200 h,v; 853 m
 CO Security KBZE 105.5 4100 h,v (680 m), C3
 CO Vilas VLSK-FM 104.7 238 m (10000 h,v)
 FL Cocoa WLRW-FM 99.3 5000 h,v; 150 m, C2
 GA Cleveland WGG-A 101.9 3200 h,v (100
 meters above average terrain)
 GA Eastman WUFF-FM 92.1 41600 h,v; 111 m
 GA Valdosta WZLS 96.7 5000 h,v; 150 m, C2
 GA Vilas VLSK-FM 104.7 238 m (10000 h,v)
 FL Tallahassee WFSO *88.9, heard testing as/
 WFSU *91.5, but correctly turns off its stereo
 for non-music programs
 IL Henry WRVY 100.5
 IA Eddyville KKSI 101.5, r, "Kiss FM"
 NY Catskill WQKZ 98.5 (mainly top 40),
 "Z-88.5" (strict)
 NY Oswego WZOS 96.7, m
 PA Lewisburg WUNS 96.3, r, heard testing
 TX Harker Heights KLFX 105.5
 WA Centralia-Chehalis KMNT 102.9, still k,
 "K-103," but correctly turns off its stereo
 generator during baseball and football games.
 "Area, true small-town station, Very refresh-
 ing, with lots of community oriented public
 affairs, sports and issues."

WI Columbus WYKU 100.5
 WI Wausau Public Radio, stations statewide,
 88.3 to 91.3, now remove their stereo pilot
 daytime when carrying talk shows. "We will
 have the ability to remotely switch the
 programming of all the stations, including
 turning on and off the stereo generators."

Monophonic

VA Cedar Bluff WYRV-FM 107.7, k
 VA Woodstock WAZR 93.7, remove stereo
 listing. It has moved from 95.8; facilities
 change to 10000 h,v (-3 m)

Format Changes

Formats are the same as in the "FM Atlas"

CA Colusa KKCY 103.1, o, SMN Pure
 CA Palm Desert KEZN 103.1, m, "soft AC"
 FL Punta Gorda WQLM 92.8 m, having moved
 from 92.7
 FL Sarasota WSR 106.3 o (died)
 GA Athens WALR 104.7, "Love 104.7" (from
 "Light 104.7"), black AC
 GA Dawson WAZE 92.1, o, SMN Cool
 GA Fort Valley WOBZ 105.3 rp, ID with Macon,
 instead of with Warner Robins

IL Champaign WHMS-FM 97.5 m
IL Joliet WJTW 93.5 m, Univ. 41
IL Polk & WLLT 107.7 m, \$
IN Elkhart WEYEZ 100.7 m, "all vocals. This leaves WEFM 95.9 Michigan City as the only b-formatted station in the area. Also, WWYJ 103.3 Crown Point IN has both b and r, but in the other direction, "no b station 'til you get to Marion WMRM" 106.9.
KS Goodland KKCI 102.5 m
KS Topeka WIBW-FM 97.3 k
KS Wichita KTOC-FM 103.7 o
KY Cadiz WBZD 106.3 m, Drake
KY Henderson WGBF-FM 103.1 r
KY Hodgenville WKMO 106.3 k
KY Prestonbury WKXZ-FM 105.5 m
KY Williamsburg WEZJ-FM 104.3 k
LA Houma KCL 107.5 k, "Bayou Country," no longer airing with New Orleans
LA Jonesboro KTOC-FM 104.9 k
LA Winnifield KVCL-FM 92.1 k, plus classical weekends, "All American Music"
ME Rockland WMCN 103.3 k. There is "more than adequate access to country and western music on our mid coast radio bands, contrasted to the negligible availability of classical music." Four country stations cover the area. "I am sending a copy of this letter to the FCC in Washington formally lodging a complaint against WMCN's change in format. The airways belong to the public, and I believe the public should have some say as to the balance and type of programming by radio and TV stations licensed to broadcast by the FCC... Bring classical music broadcasting back to Maine."
MI Ann Arbor WLIB 102.9 r
MI Harbor Springs WLTD 103.9 rk, \$
MI Hastings WBCH-FM 100.1 k
MI Muskegon WMHG 107.9 sq, but black gospel only 6 a.m. to 6 p.m. Sundays. "A lot of black stations are gospel on Sundays!" On Sunday nights it has "A Touch of Jazz."
MI Traverse City WLDR 101.9 m
MS Aberdeen WWZD-FM 105.3 m, Drake AC
MS Artesia WZIX 100.1 m, "Magic 100" (from "2-Z-100")
MS Greenville WDMG 100.7 k
MS Utica WJXN-FM 92.9 r
MS Yazzoo City WJNS-FM 92.1 r
MT Billings KGLT 91.9 q
MT Hardin KKUL-FM 95.5 o
NV Henderson KWNR 95.5 k
NY Amsterdam WKOL-FM 97.7 r
NY Cobleskill WSHQ 103.5 o. "There is not much variety in local radio in new tunes. Beside SHO-FM and WGY-FM, K-Lite FM plays a lot of '80s, '70s songs. Now, fewer local radio stations see to provide a format for fresh sounds."
NY New Paltz WFNP 88.7 p, "alternative rock," sharing time with WRHV 88.7. Poughkeepsie WFNP on air 7 to 10 p.m. and midnight to 5 a.m.
NY Rotterdam WSHZ 98.3 o, simulcast with WSHZ 103.5
NY Saratoga Springs WQY 102.3 m
NY Schenectady WGY-FM 99.5 o, "Oldies 99.5" (from "Electric 99")
NY Waterloo WNYR 98.5 still rm and to go almost 100% satellite, causing some unemployment. "Meanwhile, WNYR continues its AM simulcast in Syracuse on the existing (but failing) WOLF AM 1490. That simulcast has been going on for several weeks, and will continue at most indefinitely."
NY Wurtzboro WZAD 97.3 jc, also some rock and easy listening—"no discernible pattern of programming, Stereo."
NC Edenton WBXK 100.1 sg
NC Washington WDLX 93.3 m, "Lite 93" (from "93-DLX")
OH Galipolis WGTR 101.5 op, classic rock
OH Ottawa WQTL 106.3 p, not on air

Off Air or Not Yet On

AR Waldron KRWA 103.1
CA Anderson KEWB 94.7, still on 94.3 "until next summer" [was 9-15-90]
CA Kings Beach KBCH 107.7; target date/
IL Marshall WMMC 105.9
IN Bloomfield DWBH 101.5
IN Clinton WPNL 93.9
IN Kentwood WPNI 101.7
IN Linton WQTY 93.3—still on 93.5

IN Sullivan WNDI-FM 95.3 (along with its AM)
ME Bath WIGY 105.9 and WJTO AM sold for \$750,000 to Kaleidoscope/L. Frank Burke of Minneapolis MN. Barnes Business Credit was owed \$6.5 million, but this is the best offer received for the stations. Expected back on air after sale is approved by the FCC.
ME Kittery WKCD 105.3
MT West Yellowstone KRGS 96.5
NM Alamogordo KINN 105.3, still on 105.5
NY Montauk WMNK 104.7
NC Belhaven WKJA 101.1, still on 92.1
NC Warrenton WVR 107.3
OR Bend KWBX 105.7, going commercial
PA Renovo WMHU 93.1 o, Kool Radio, simulcast with WKHL-FM 95.5 Salladasburg
SC Aliken WRXR-FM 96.3 op
SC Moncks Corner WYJO 105.5 c [classic] still on 105.5
SC Mullins WCIG 107.1 s, "Hot 107," add to p. 186 FM Atas-13—is \$100, 3000 h, v
SC Ravenel WMGL 101.7 s
SC Ridge and WSHG 104.9 o, "Shag"
TX Corsicana KAND-FM 107.9 k, ID with Ennis, still "108" [saying "97-KFM"]
TX Houston KFMK 97.8 o, no non-ID/
TX Mount Pleasant KPKX 100.7 still r, not going to k
TX Pecos KPTX 98.3 k
TX San Angelo KKLK 101.9 to be k
TX San Antonio KSSR 92.9 r, "Star 93"
TX Texarkana KYKR 102.5 k
UT Provo KZOL 96.1 m, "K-96.1"
VA Bridgewater WRDJ-FM 105.1; change from "WA," FM Atas 13, p. 182
VA Chillicothe WFRN-FM 100.7 k
VA Clinchco WDIC-FM 93.1 m, \$
VA Burns KMUS-FM 101.9 k, "K-Moose," ID will include Cheyenne
VA New Westminster CFMI 101.1 still r, but going to a harder rock sound. The CRTC, however, denied a decrease in its news.
ON Bracebridge CFBG 100.9 still rm, but now programming on its own 126 hours a week. It had been receiving 54 hours a week from CFBK 105.5 Huntsville ON, and 24 hours a week from the CBC AM network.
PQ Montreal CISM "89.3 to be r," harder pop/rock music. Students have developed plans for 16 hours a week of public affairs programming."

On Air (Selected)

CA Chico KZFR "90.1—"format eclectic—old d 70s, blues, jazz, rock," etc.
IA Fort Madison KBK 101.7 50000 h,v; 142 m as of now "baring any construction on delays." From a side road of Wever on a hill on Iowa 16 near U.S. 61. Eventually it may increase its ad rates, but "there are no plans at present to hike the rates."
KY Paris WCOZ 96.9 (from 96.7)
LA Belle Chasse KNOK 102.9, but was off for a day "with a suspicious fire destroying its transmitter. The station manager has called for an investigation."
OR Bend K201BP "88.1"
OR Sunriver K213BH "90.5, transmits from Spring Butte, 26 miles SSE
PA Philadelphia WXPX "88.5, having moved from 88.9 [from 88.7 as WNHV]
VA Chesapeake WHRV "90.3, having moved/VA Portsmouth WFDS "88.7, having moved from 90.3
WY Mammoth Hot Springs all translators as shown in the "FM Atlas"

Off Air or Not Yet On

AR Waldron KRWA 103.1
CA Anderson KEWB 94.7, still on 94.3 "until next summer" [was 9-15-90]
CA Kings Beach KBCH 107.7; target date/
IL Marshall WMMC 105.9
IN Bloomfield DWBH 101.5
IN Clinton WPNL 93.9
IN Kentwood WPNI 101.7
IN Linton WQTY 93.3—still on 93.5

plus additional for hardware.
NE Winnebago KSUX 105.7 t+u, 82 kHz, owned by Gary Viot of Winfield KS. "You wouldn't believe what else people call our letters besides 'K-Sioux'." It has applied to upgrade to a C2.
OR Bend KICE 97.0 t+u, [light rock]
BJ Tijuana XHLTH 104.5 t+r, 67, "English/FMedal" "until November" "Is there no October issue scheduled, or are you wishing us an early winter?"
FMistakes—13th ed. FM Atlas.
Look for these and correct them when your book comes.
AL Albertville-Gadsden WQSB 105.1 add [...] TX Bay City KMK 102.5 K-102.5 (strict to indicate multiple cities in its ID list, TX Houston KIKK-FM 95.7 Kick 96 (not strict p. 181) [not "KYHO," p. 152]
AZ Eagar 92.5 calls are KTHO, [p. 178] (from "FM 102") [still r CA Parades-De-Chico KCHH 103.5 out of sequence, / UT Salt Lake City KCPX-FM "98.7 K-98.7, FL Marco delete listing on 92.5 is on 92.7, p. 15A Newport News WGH 97.3 New Eagle (k) FL Micamopy WLCL 97.7 remove listing with Galveston, p. 164
FL Port Charlotte WEEJ 100.1 i+s 100000 power is vertical (97300) h, p. 170
IN Shelbyville-Indianapolis WENS 97.1 "Lite Rock 97" non-ID not included in listing, p. 163 [from 96.1; is on 96.3, p. 161 KS Derby-Wichita KKRZ remove listing/MA Athol WCAT-FM 99.9 (correct town; not "Atherton") p. 169
NM Grants (not "NY") KYDC 100.9, p. 172
NM Majamar KWMW 105.1 has \$, p. 181
NY Pittsford (not "Plattsmouth") V.CFE-FM "91.9, p. 151 [not "WXTY," p. 179 NY Ticonderoga "103.9 calls are WAN/C,"
NY Watertown WQH 99.9 with Tallahassee :02 to :04 after the hour, between commercials.
"All other references are only to Tallahassee," IA Muscatine KFMH 99.9 with new tower gets out 80-90 miles; ID with Davenport, Iowa City, Cedar Rapids "and everywhere."
MN Crookston KTCF 101.7 with Ironton, \$ KS Iola KIOL 99.3 with Chanute OK Okmulgee KTHK 94.1 with Tulsa; having moved from 94, with a "much improved signal" [with Lake Charles LA TX Beaumont KVLU 91.3/ [Port Lavaca TX El Campo KXGC 96.9 with Bay City-/

Multi-City IDs In Use

FL Lafayette WOHI 99.9 with Tallahassee :02 to :04 after the hour, between commercials.
"All other references are only to Tallahassee," IA Muscatine KFMH 99.9 with new tower gets out 80-90 miles; ID with Davenport, Iowa City, Cedar Rapids "and everywhere."
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AM Happenings Most Likely Caused by FM

AR Dardanelle KCAB 98.0 silent, along with WAKO 105.5 facilities are \$1,300/ [h,v; p. 183 TX Paris WAKO 105.5 facilities are \$1,300/ TX Fremont KMF 104.9 has \$[tereo], p. 181 TX San Antonio 104.5 calls are KZEP-FM, not "KZEP," p. 180 [listing, p. 163 WA Walla Walla KNSN 87, remove stereo/ BC Christian Lake CBR 98.3 out of sequence, p. 166 [just h, p. 174 OKington CFRC *101.9 i+s 3000 h, v (not/

NonIDs, Not Just Slogans

Mentioned on the air usually without call letters; "strict" if a stat on only uses call letters once per hour as required by the FCC (at or near the top of the hour)
AR Barling KOLX 94.5 O dies 94
CO Alamosa KALD 93.5 Q-9.5
IN Indianapolis WFXX 103.3 still "Frz," with "strict official ID wedged in commercial break @ 46 past the hour."
KS El Dorado KBZ 98.1 K-Buzz
KS Kingman KAPH 100.3 (having moved from 99.3) Kapp 100, "On the hour they neglected to mention the calls, just saying 'We're 100.3 Kingman, Anthony-Wichita'."
KY Elkhorn City WRAU 103.1 O dies 103 (from "Gospel 103") [from "G-103"] MD Havre de Grace WXY 103.7 Extra 103/ MA Boston WERB 98.5 ROR-FM (from "98.5") NJ Austin KAUS-FM 99.8 FM 100 Country NJ Franklin WUSL 102.3 no "102" non-ID; uses call letters always [Kix 101 Radio]/ NC Elizabeth City WKJX 86.7 96-X (from/

lock."
OK Oklahoma City KOMA 1520 "was not rock about four years ago—they had Music of Your Life, plus old radio shows... They went rock a couple of years ago." But was rock earlier. WA Opportunity-Spokane KSVY 1550 becomes classical
In a study commissioned for FCC Chairman Al Sikes it was found that 246 AMs, 17 FMs and 20 UHF TV stations had gone silent. "Dark AMs represented five percent of licensed AMs." I think the 17 figure for FM is too low.

Readers' Reports

This month's column takes on a new look, as it was prepared in the absence of FMedal which missed Oct. VUD readers are so important to me that I didn't want to miss an issue for you. Look above for "See Also" and other features gleaned from the last VHF-UHF Digest.

"After Columbus Day, I received the VUD with word about the FM Atlas 13 now can be advanced ordered, so here is my \$12," writes Wendell Ford. He also sent a list of changes in his area, notably the dropping of the b format at WVEZ 100.7 Elkhart IN. He's typing the NRC 1991 AM log and as soon as he gets FM Atlas-13 he'll start on the FM side of it. The books are all printed and I am awaiting delivery of the first ones from MI. By the time you read this Wendell and others who have advanced ordered should have their copies.

Jeff Falconer sent an item about the Toronto 92.5 channel going to Rawlco (see above, "New"). Now it seems those who want a black-dance station are concentrating on 99.1, the frequency vacated when CKO went belly-up. The appeal for 92.5 went nowhere, with the "federal cabinet" (whatever that is) agreeing with the CRTC that the country music format proposed by Rawlco should have the nod. Apparently, this "federal cabinet" includes Communications Minister Marcel Masse. Masse, a government employee, says he can't order the CRTC to give the next license to a black-oriented station, since "the CRTC operates at arm's length from government."

A FL mystery—Chris Dunne has heard from the opposite coast a "Gulf Country" (k) station there, and he's wondering if WGUF 92.7 Marco is on. It was obviously too weak to tell if stereo or not. He's gotten E-skip to Central America in September. "Lord willing, Danny B. will have it for Nov. VUD."

FM Filters' News

Eric Sundius sent information on ceramic filters from a Murata catalog. "I have not ordered any 110s or 130s yet, but when I do I

will let you know where I ordered them, and how they performed.

"I have modified five tuners, a Superadio and a car stereo with 150 kHz filters. I had the most success with a Marantz digital receiver, model SR 440. This unit required three filters. I can now DX frequencies adjacent to strong locals with very little splatter. And I have adjusted the stereo threshold to a very low level so that I can DX in stereo. The performance is much better than my Heathkit AJ-1510 tuner. I achieved moderate success modifying a new Sherwood RA-1140 receiver. This unit cost only \$88 new, and has 16 presets. I have defeated the automatic FM muting and replaced the ceramic IF filter with a 150 kHz filter. This receiver will make a good auxiliary tuner, at an excellent price. Keep up the great work on your column." Eric might want to consider writing an article saying in general terms how you can defeat the automatic FM muting to permit DXing in stereo on receivers that combine the muting with the stereo switch.

"You listed new 98.5 in Rocky Mount NC in 7-89 VUD, but missed the boat on 'Call Letters Assigned?' They are WSAY-FM and are already on air," says Gus Mancuso. I understand it is country, stereo. "WJMA-FM still 96.7-jump the gun, jump the gun! WRCQ Dunn NC (x 103.1) to 103.5 in effect OK. . . Got 112 in New Bern and 158 from Emporia VA. Range was from DC to GA from both spots; only weird catch was WWSN 107.7 Ohio from Emporia, in for almost an hour with no fade!" Next June he hopes to go to South Hill VA. "It should be great—after 11 p.m. closest station on air will be 93.5, 25 miles away with only about 10 within 50 miles; 88-92 is actually too clean. . . The 158 from Emporia is my two-night record now. Hope to break the three night work of 169 from Bellefontaine OH in 1989. . . Anything under 200 will probably disappoint, especially with skips and/or staying four nights. Also good is VPGT goes off 7 p.m. and WPTM at 12."

Mike Cherry sends word of a solar-powered station, IRIE-FM ("eye-ree FM") in Ocho Rios, Jamaica with 7 kw, 24 hours stereo on 107.1, with a relayer on 107.5 at Port Antonio on the east coast. "They play reggae and nothing else [and] everywhere you go in Jamaica you can hear Irie-FM coming out of houses, cars and boomboxes! Although only on the air for approximately five months, it is quickly becoming a favorite with locals of all ages. Nice signal. . . JBC-FM and RJR are reported to be increasing the ratio of reggae in their music formats. [Also] some Spanish stations that might have been tropo from Costa Rica were heard on Jamaica recently". In the '60s, FM was reported on that island from Costa Rica and some of the other Caribbean islands via tropo and skip from Brazil. Reception of Colombia and Venezuela was probably tropo. "I hope there won't be a postal strike here in Canada—I would sure like my new FM Atlas plus a chance to get the Christmas mail before this ha pens!"

Mike writes about an FM DX aid, a booster or FM pre-amp which is located at the receiver: "The Magnum Sleuth 150 never ceases to amaze me! It literally sucks the weak-signal tropo (and probably aurora when that mode is usable) out of the scatter! I'm even able to get decent stereo reception out of my regular tropo and tropo-scatter stations! I have yet to try using it with my 1-watt FM exciter, but that experiment will be soon coming." Mike had one mystery from his recent DXing, which turned out to be KTNE-FM *91.1 Alliance NE.

"I enjoyed Joel Rosenberg's article on DAB tests and I observed the same video and audio modulation characteristics," says Mike. "Frequencies used here were

797.5 and 800.5 mHz (1 kw ERP). Vancouver's tests ended around Aug. 23. Enclosed are some frequency flyers from the CBC's recent open house in Vancouver. Dave Sinclair brought them over when he visited. We four-wheel drove up to the Mt. Bruce bandscan mountain-top location (64 stations) and hopefully Greg Coniglio will have our bandscan report published soon. We got to tour the CKVU-10 and CBU-FM1 facility on nearby Hope Hill, Mt. Tuam on Salt Spring Island. The 'meter reader' wasn't actually on either station's engineering staff, but was paid to take the twice-weekly readings. He seemed to know little or nothing about wave propagation other than ground-wave and had some vague explanation about CBC having problems picking up their stereo service signal from Vancouver. . . For now they are using a Sony receiver to pick up the primary feed on 105.7 for rebroadcast. . . During my Sunday, Aug. 25 'Rockers' reggae show on CITR *101.9 Vancouver I got a call from an Es listener in Wray CO who was picking us up in stereo. . . The listener wasn't a DXer but had noticed DX FM stations in previous years. . . See, it does pay for Canadian stations to spew out their call letters and request line numbers. If any WTFFA members pick us up, the number is (604) 228-2487. I'm on noon to 3 p.m. Pacific time. If I knew an opening to BC was in progress, I would give the calls often enough to help DXers verify CITR. . . One of these days I must get with it and order up some 180 and 150 kHz filters for the Sansui receiver."

Eric Fader mentions sharetimers WRHV (not "WRHV") "88.7 Poughkeepsie and WFNP *88.7 New Paltz NY. Not too often a DXer can legally count two local stations on one frequency—but here's your chance. I wonder, however, if WFNP has stereo. "Also WZMX 93.7 CT is 'The New Mix 93.7 FM' [playing] what the industry calls 'bright AC'. I call it truly terrible music. I assume you already know that WWHE NY 107.1 now simulcasts VNEW-FM 102.7 with local Long Island [Hamptons] ads."

Greg Hardison: "Please send me the 13th edition ASAP—wouldn't miss it for the world! If we do another DX show this year (with Ray Briem), you'll probably get a call. No longer airing on national radio. This has taken some of the fun out of it all, though. Keep up the extraordinary work!"

Tom Bryant is going to be listening for the new WAMB-FM1 106.7 Donelson TN, a rarity among FM stations. It will be a nighttime-only station (see above, "Call Letters"), and he may send a tape if it reaches his OTH on the WSW side of Nashville.

Fellow editor Bill Nienajadly addresses an issue I have had to contend with. Bill says: "I honestly wish that any complaints of any column should be addressed to the editor and sent to them directly, not to HQ where they will be printed and make we editors look like buffoons, jerks, etc." In an earlier letter to Bill Thompson, Bill N. said he's "sick of seeing Greg's column trashed. This is the second or third time." I suppose, however, after direct complaints to the editor don't yield results, then a member could write club HQ to try to bring about changes. I think most complaints are from a fringe part of the membership and don't reflect the reality that each column has a group of loyal readers who enjoy the columns as they are. Bill sent an obit on Paul Lockwood, 51, newscaster at VBAZ Southold NY, who collapsed on the job as he arrived to do a remote at the Polishtown Fair in Riverhead. And he sent an article from the NY Daily News on digital radio, "Will Radio Become a Wave of the Past?" 73, *James Drury*

"I enjoyed Joel Rosenberg's article on DAB tests and I observed the same video and audio modulation characteristics," says Mike. "Frequencies used here were

QSL CORNER & LOGOS RUN

Thomas J. Yingling, Jr., KA3TCC/AC
221 Pinewood Road
Baltimore, MD 21222-2315
Phone # 301-282-5649

>>> >>> >>> >>> >>> >>> >>> >>>

ON CYSO 94.3 Thunder Bay, 87 North Hill St, zip PTA 5VB. Letter & bumper stickers from Tim Goebel, Program Dir. back in about 2 weeks. (B.Hall)
FL WAYJ 88.7 Fort Myers, P. O. Box 061275, zip 33906. Letter, t shirt & bumper stickers back in 10 days from Randal Eugene "Skip" Spence, Program Dir. & Chief Operator back in 25 days. (B.Hall)

PA WHPA 104.9 Hollidaysburg, Box 484, zip 16848. Letter, fridge magnet & coverage-map from Gary S. Magill, CE back in 2 weeks. (B.Hall)
TX KPRC 2 Houston, P. O. Box 2222, zip 77252. Folder-qsl card from Lynn Salerno, after I follow-up report one year later. Also send 2 logo stickers. (T. Yingling)

SD KDLT 5 Mitchell, # 3800 S. Westport Ave., Sioux Falls, SD 57116-0196. Letter from Donald Sturezenbecher, CE after one follow up letter send 3 years later. My first letter was not answered due to the studios were moved to Sioux Falls, and with it being busy time for engineering. (T. Yingling)

NE KDUE 4 Scottsbluff, 1523 First Ave., P. O. 1529, zip 81361. Letter, stickers from Wayne A. Nestor, CE, after one follow-up report. (T. Yingling)

KS KLBY 4 Colby, 980 S. Range, zip 67701. Letter & coverage map back after one follow-up report from Leroy Steckman, CE. (T. Yingling)

GA WGXA 24 Macon, P. O. Box 340, zip 31287. Letter from Kim T. Bene', Program Director/Operations Manager after one follow up report. (T. Yingling)

AL WVOB 91.3 Dothan, P. O. Box 1944, zip 36302. Letter from Steve A. Shuemake, Mgr. mentioned hearing CB skip before, "but this certainly one for our record book" Send bumper sticker, & book about Bethany Bible College. (B.Elving)

CO KSYY 85.7 Denver, 8975 E. Kenyon Ave, zip 80237. Letter sign by Craig Roberts, GM tells about their directional antenna to protect a nearby "quiet zone" from electromagnetic interference, and hoping I'll try for their AM on 630khz. (B.Elving)

CO KCFR 80.1 Denver, 2249 S. Josephine St., zip 80210. Letter from Robert J. Hensler, CE saying it had been heard in southwestern Canada two years ago. (B.Elving)

CO KKLH 106.3 Widefield, # P. O. Box 17380, Colorado Springs, CO zip 80935. Letter from Bob Scott, no title. Letter tells of 71 watts, but having a CP for 1600 watts. (B.Elving)

ID KZNG 93.1 New Plymouth, # 1002 Franklin St., Boise, ID 83842. Short note from "Mac, CE" who says as a ham he's aware of skip. (B.Elving)

LA KMDL 87.3 Kaplan, # Box 30490, Lafayette, LA 70503. Letter from Ernest J. Alexander, GM saying it's amazing they were heard so far. Send coffee mug, bumper sticker, & key chain. (B.Elving)
LA WNO 89.9 New Orleans, just zip of 70148. Letter from John S. Batson, GM mentions about being heard in New England (Mike Bugai ?) (B.Elving)

MS WUSM 88.5 Hattiesburg Box 10045, zip 38606-0045. Letter from Torye Hurst, Program Mgr. mentions also being heard in MO & IL. (B.Elving)

MS WMW 88.1 Meridian, # PRM, Box 4349, Jackson, MS 38216-0343. Short letter from Mike Morgan mentioning also being heard in Halifax, NS. Also send program guidon bumper sticker & note pad. (B.Elving)

MT KXEI 95.1 Havre, P. O. Box 2428, zip 59501. Letter from Ed Matter, GM mentioning skip bothering their regular listeners. My reception most distance and to be honest with you, I would be surprised if you ever hear us again. Send sticker. (B. Elvings)



MT KLCM 95.9 Lewistown, P. O. Box 620, zip 59457. Short letter from Tina Boswell, Program Mgr mentioning the AM being heard in AL, but no dx record on the FM. "There are many mountain ranges surrounding Lewiston and some towns in our coverage area can't pick us up! Enclosed coverage map giving a false frequency of 95.7 mhz. (B. Elving)

NV KNPR 89.5 Las Vegas, 5151 Boulder Hwy, zip 89122. Letter from Lamar Marchese, Pres. & GM says "I think you get the distance record for listening to our station. The previous record was held by a radio enthusiast in Vancouver, BC (Mike Cherry ?) He found it pretty amazing that I could detect his 2 SCAs. (B. Elving)

NM KPCL 95.7 Farmington, P. O. Box 222, zip 87499. Letter from Fareed Ayoub, Station Mgr says he "was surprised and shocked to hear from someone who lives so far from Farmington, NM. What kind of Ph.D. are you?" Later send a second letter mentioning being heard by Nigel Pimblett in Medicine Hat, AB Canada the same day I received them. (B. Elving)

TX KNTU 88.1 Denton, P. O. Box 13585, zip 76203-3585. Letter from Russell Campbell, Development Director who send sticker & letter explaining their complex directional antenna pattern when school hour station KEDM 88.3 Mesquite, TX is on air, & when not on air, they also protect KJBR 88.3 Keene, TX. (B. Elving)

OR KLAD 92.5 Klamath Falls, P. O. Box 489, zip 97601. Letter from D.B. Hagen, Eng. who accuses me of being their most distant listener, says they are 63kw circular, but FCC shows only horizontal. (B. Elving)

SC WLJF 88.3 Greenville, 2420 Wade Hampton Blvd., zip 29615. Letter from Allen Henderson, Operations Director, send program guide & brief letter "Someone claimed to have picked us in Haiti once for just a few minutes. It's strange when that happens." (B. Elving)

AB CJSR 88.5 Edmonton, Room 224, S.U.B., University of Alberta, zip T6G 2J7. Letter from Ian Istvanffy, Station Mgr. says they're 44.5 watts "A few months ago someone in Finland received our signal" (! ? !) (B. Elving)

AB CJAY 92.1 Calgary, Box 7060, Station A, zip T3C 3L9. Letter from Steward Meyers, Program Director also send t-shirt, sticker and says they were heard in Dallas, TX a few years ago. (B. Elving)

AL WVAS 90.7 Montgomery, Alabama State University, zip 36101-0271. Prepared Card signed by S. Myers, received back in 1 month. (R. Ross)

AL WOOF 99.7 Dothan, Box 127, zip 36302. PFC & sticker back in 1 month from Mike Holdenfield, CE. (R. Ross)

AL WBHL 91.3 Florence, Box IBC, zip 35630. PFC & qsl card from Jim Lancaster, Sales Mgr in 1 month. (R. Ross)

MS WYMX 99.1 Greenwood, Box 1686, Browning Rd, zip 38900. PFC & bumper sticker from Keith Worrall, CE in 1 month. (R. Ross)

FL WILN 105.9 Panama City, Box 1790, zip 32402. PFC & letter from Jim Broaddus, Pres. in 1 month. (R. Ross)

KWNS 104.9 Winnsboro, P. O. Box 54, 337 N. Main, zip 75494. Letter from Richard E. Foster, Owner reply back in 16 days. (B. Hall)

MI WIKB 99.1 Iron River, P. O. Box AC, zip 49935. Letter back from Kurt J. Paro, CE in 15 days, and also send bumper stickers. (B. Hall)

TX KODA 99.1 Houston, 4810 San Felipe Rd, zip 77056. Letter, sunglasses, magnet, & bumper stickers from Dusty Black, Vice Pres/General Mgr. in 15 days. who says "By receipt of this letter you are hereby proclaimed an official member of the KODAKREW." (B. Hall)

AR KMAG 99.1 Fort Smith, 423 Garrison Ave., zip 72901. Letter, medial kits, bumper stickers, buttons, & balloons all from Del Williams, Sales Mgr. in 13 days. (B. Hall) (you must like dxing 99.1 ? editor)

ON CHEQ 101.1 Smith Falls, P. O. Box 1200, zip K7A 4T4. Letter, bumper stickers, key chain from Brian Perkin, Program Dir. in 8 days. (B. Hall)

PA WKYE 98.5 Johnstown, 109 Plaza Dr., Box 309, zip 15907. Letter & bumper sticker from James J. Boxler, CE in 7 days. (B. Hall)



NY WCIZ 97.5 Watertown, RD2, Gifford Rd., zip 13601. Letter from Holle Helix "It's always great to hear from a faithful adoring worshipping listener!" reply back in 10 & 3 flashy bumper stickers to show off just how hip you really are! (B. Hall)

LA KDEA 99.1 New Iberia, P. O. Box 12948, zip 70526-2948. Letter from Donald Bonin, Owner & General Mgr. in 14 days. (B. Hall)

OH WRDL 88.9 Ashland, Ashland College, Dept. of Radio/TV, zip 44805. Handwritten letter from Sara Bontempo, Music Dir. to reply to my phone call too, back in 12 days. (B. Hall)

FL WQCS 88.9 Fort Pierce, Indian River Community College, 3209 Virginia Ave, zip 34981-5599. Letter from Jill D. Roberts, Public Affairs Director, back in 14 days. Very odd letterhead paper, does not show call sign or frequency. (B. Hall)

NY WBSU 89.1 Brockport, Seymour College Union, State University of NY, zip 14420. Handwritten letter from Michael D. Hall, (Wolfchild), no title, back in 2 weeks after phone call. Also send 3 buttons. (B. Hall)

Lots of QSLs this month and some logos. Reporters are Bruce Elving, Robert Ross & new reporter of Bruce Hall. No news on my new computer yet. Now need money for monitor. The big news is I passed the Amateur General Class test at last. So, that explains the /AG on my call. Until I get new ticket in mail, and I'm keeping the call KASTCC. At the convention in Virginia there was some talk of getting a list of all WIFDA members that are hams (amateurs), and try to get a tv/fm dx net on HF. I was surprised just how many so far are getting their license. If any members that are hams are interested, please write to me. I hope most are at least a general class so we could use lower bands beside 10 meters. 73 till next issue, and please report. I have little left to use, which will explain why I have been skipping a month between columns. One point I must make on all qsl items report, you MUST give all information. Don't just give me the call sign, without the frequency or address as I did had to drop some items. Also please use a regular size typewriter print, as its' kind of hard reading such small print. Until later on keep on dxing, qsl'ing, and reporting what you got.

KWNS 97.5 CIZ FM

32 NEWS AT 9
Chicago's News of Choice...Not Habit.

In Touch With
Tampa Bay. 8 WEEKLY

WKPT-TV 19
KINGSPORT, JOHNSON CITY
STEREO!
P. O. BOX WKPT • KINGSPORT, TENNESSEE 37662

9 WGN-TV
Super 66 WGBO-TV

5 KQEG-FM

WSKC
BINGHAMTON

505 King Street, Suite 221
La Crosse, Wisconsin 54601

Weather
Don't let Mother Nature fool you. Tune in
24 hours a day.
THE WEATHER CHANNEL

TECHNICAL TOPICS

Back in the April '90 VUD my first article appeared, covering the more technical side of selective ceramic filters for FM DX improvement. I appreciate all the comments, letters, and help that followed from fellow club members. During the last several months I have been able to do a bit more research and experimenting in the lab...and the results have been very successful. This part 2 of 2 will be very results-oriented, with actual test data. Perhaps this article, together with the one in April, will give readers a complete reference on the subject of ceramic filters.

WHAT YOU SEE WITH YOUR EYES

Almost everyone who's tried installing narrower filters has noticed that they are very lop-sided; that makes the tuner more selective on one side of a channel than the other. More observant DX'ers have noted that while close-in selectivity is much better with narrower filters, alternate channel selectivity is degraded. The most persistent experimenters (myself included) who have managed to locate filters with bandwidths of 130, 110, and even 55 kHz have been less than enthused after trying them. All of these effects can be explained.

First, these little filters do not have very tight tolerances. Not even as tight as I originally believed. There is a very noticeable unit-to-unit difference in each of the following characteristics: center frequency, ripple, and bandwidth. Center frequency can vary +/-30 kHz according to the data sheet, but in my collection there are a few that are as much as 75 kHz off (I define center frequency as the point of minimum loss in the passband--this is what you care about when tuning). If you buy three filters having a nominal bandwidth of 110 kHz, and cascade them, you might have an overall bandwidth of 170 kHz or more!

Ripple varies significantly from unit to unit. Notice in figure 1 how different the two curves are. These were both 110 kHz filters, bought at the same time, from the same source. One is very flat in the passband (this is desirable), while the other is somewhat lop-sided. This contributes noticeably to distortion--especially if several of these are cascaded. And bandwidth, typically defined as the range of frequencies over which the filter passband is 3 dB down, varies from 20 to 25%. This is complicated by the ripple problem. Together these discrepancies can make the tuning action of a tuner very lop-sided. (Attempting to internally adjust the IF to match the filters doesn't work.)

I have found that by buying, say, 20 filters of a particular type, I can measure them and thereby hand-pick only 4 or 5 that have a nice flat response and a center frequency very close to 10.7 MHz. Then when I cascade them into a tuner, the performance is noticeably better than if filters are chosen from the lot at random. All of this suggests another reason why manufacturers use wider bandwidth filters in their products than one might think necessary. Over a run of thousands of front ends, it increases the probability that every one will work satisfactorily without the expense of workers hand-selecting every single component.

In Figure 2, there are three curves. These represent actual (not advertised) data for three Murata filters I obtained from the manufacturer. One is a 55 kHz unit, one a 110, and one a 150. Notice how the 150 unit is off-center, but relatively flat. This would cause a tuner to have noticeably (in this case, about 10 dB) better selectivity on one side of a channel than the other. If I used more than one, this lop-sidedness could be significantly better or worse. The 55 kHz unit is not only off-center, but is not at all flat near the center. As expected, when installed, this garbled up the audio so bad that nothing could be understood. Most importantly, notice the stopband attenuation. Ideally, you would want a filter to completely kill an adjacent channel. Nature won't allow this, but the typical ceramic filter is not too shabby. The 150 kHz unit attenuates all the out-of-band signals by at least 45dB. The 110 kHz unit doesn't do so well, about 3dB less on average. The 55kHz unit is about 10dB worse yet. The point is this: just because a narrower filter is used, overall results may not improve. You want to increase adjacent channel selectivity, but *without decreasing image rejection and alternate channel selectivity*. More is not necessarily better.

WHAT YOU HEAR WITH YOUR EARS

Figure 3 is a summary, in general terms, of what I've learned in the lab and from experimentation. It attempts to communicate the tradeoffs discussed in this article.

Along the horizontal axis is a range of possible filter bandwidths (it doesn't matter how many filters are used in cascade for this graph). The DX'er wants the narrowest bandwidth possible. As you might expect, going to wider bandwidths increases distortion and decreases intelligibility because the two adjacent signals begin to overlap the desired one. (If there are no adjacent signals, the same result occurs because more noise is received: a decrease of SNR). Going to ever-narrower bandwidths increases distortion and reduces intelligibility because less of the information in the signal is recovered and because the filters are not as well behaved. It is clear where the happy mediums are to be found.

OVERALL IMPRESSIONS

For these experiments, I use a Pioneer TX-7500 tuner, a nice analog tuner from the late 70's that I bought used for \$25 at a yard sale. It came with three filters, which I replaced with sockets to facilitate experimentation. A Probe Nine antenna up in the attic is my signal source. The dial here is, of course, very crowded, with all channels (except 100.5) deep with stations. I tried 55kHz filters. Even with just one, all of the adjacent problems go away...there was even dead space between adjacent stations. Unfortunately, the audio that came out of the speakers was so garbled that even strong local stations were practically unintelligible. Plus, there were some image problems. Then I used 110 and 130 kHz filters. With these, the audio was acceptable, but the very weak stations were still hard to understand. You could hear distortion on musical peaks (=maximum FM deviations). Further, the stopband attenuation of these units was worse than the original 230kHz factory filters. I found I had to tune very carefully to avoid splatter from adjacent and even alternate channel stations.

[NOTE: portable radios typically only use one or two filters and narrower band discriminators--these might really benefit from use of the 130's and 110's. For example, the Radio Shack DX-440 uses two filters. I replaced them with a 130 and a 110 and it made a fairly dramatic improvement. Gus Mancuso does most of his DX'ing on one of these now. A GE Superadio would benefit from a 130 or even 110 and a bit of tweaking.]

180kHz filters will always be a big improvement over the factory filters, particularly if cascaded, and you pay almost no penalty in audio distortion. 150's will be a little better. Going from a 230 to a 150 can be expected to buy you about 15-20dB improvement in ACS. To achieve even better selectivity the secret is to cascade several units. For example, a set of five, properly cascaded, could have 54db/octave rolloff and 80dB of stopband attenuation. The circuit presented in Figure 4 takes advantage of this by correctly cascading and matching five filters and providing enough gain to overcome their loss. The 150's gave the best overall performance and were unbeatable when cascaded. When I selected the best of my 180 and 150kHz filters using a spectrum analyzer and a sweep oscillator, and built up a 5-filter circuit (as shown in Fig. 4) using these, and installed it in the TX-7500, it produced the best DX performance I've ever been able to achieve. (I'd love to do a side by side comparison with a MR-78 sometime.) With this circuit inserted between the front end assembly and the IF strip, I have about 30-70dB of ACS! (The -3dB bandwidth is 115kHz; the -40 dB bandwidth is 260kHz; and the stopband attenuation is better than 70dB. The center frequency wound up being off by 20kHz--hence the "30-70dB.") With a rotatable antenna on the TX-7500, I can now DX on any FM channel.

The circuit presented in Fig. 4 could be built for less than \$20 by just about anyone; there is nothing tricky. In fact, the easiest method of construction would be to start with a piece of 3.5" x 1.5" board and lay out the components in the same positions as they appear in Fig. 4. Then just use the leads of the components, instead of cutting and stripping wire, to make the connections. Use coax to make the input and output connections to the tuner. It can be installed between the IF and RF section of any tuner having an IF of 10.7MHz, even those older tuners made before the introduction of ceramic filters. Or, it can be installed in place of an existing ceramic filter (leave off the 560- and 100-ohm resistors on the input). Overall circuit gain is set at -5dB (to match a ceramic filter and also keep noise at a minimum). The circuit can be powered off the tuner's B+, anywhere from 9-15V.

I know the average person does not have access to RF equipment for checking out individual filters...and that the tolerances of Toko, Murata-Erie, and TDK filters are not very tight...and what effects the filters have on the audio quality and distortion. (See Figure 3.) I also know that of all the filters I've tested, it seems the narrower bandwidth units have worse image rejection (although there is no theoretical reason for this). Therefore, I feel that the 180kHz units offered by Digi-Key and the 150kHz units from Hosfelt (at only \$1.00 each!) are the best overall compromise. I really don't see any advantage at all in fooling with narrower filters than these.

RECOMMENDATIONS

If you have an analog tuner, you have an advantage no matter what factory filters come inside the cabinet. Just replacing the existing filters with 180kHz units will make a dramatic improvement in your ability to tune adjacent channels, and you will probably not notice the slight loss of highs in the audio. By going to 150 kHz units, your DX performance improves more (this is especially good in car radios).

If you have a digital tuner, e.g. one with synthesized tuning which can only allow you to tune in discrete (heaven forbid, only 100 kHz!) steps, you need to use a narrower filter. The 150 kHz units are still your best compromise. 130's might do slightly better, but don't bother unless you can get them easily. The problem is your tuner's inability to off-tune—an important DX capability no matter what filters are used. Not to sound defeatist, but the owners of most mass-market receivers and tuners will find an FM section with 200 or 100kHz tuning steps and no more than 2 or 3 filters. These owners will never notice any dramatic improvements if they have many stations on the dial (which is just about everywhere these days).

If the tuner has 5 or more filters already installed, don't try to replace all of them with the narrowest units you can find. You will be much more successful if you first identify the order they are wired in the circuit, and leave the first two as factory stock. Then replace all the rest with moderate bandwidth, say, 180kHz units. If you have a 150 lying around, you might try replacing the *last* filter in the series with your 150. If you replace the entire chain with 150 kHz or narrower filters, you are in for disappointment (untolerable distortion and degraded image rejection).

If you have one of the older (pre 1970's) tuners, chances are near 100% that no ceramic filters are used at all. If you aren't satisfied with the performance of these, you could be in for a real treat if you take the trouble to change it over. (I have in mind the kit tuners sold in the 60's.)

To conclude this article, here is a table listing the specs of all the filters I can get my hands on and test out. Good luck with the circuit if you try to build one. Any questions or comments...feel free to write. If you need help modifying a very old tuner, please enclose a circuit diagram of same, and an SASE.

TABLE 1. Comparison of various ceramic FM IF filters

model	BW	A	B	C	D	E	F	G	H
SFA10.7MF5	55kHz	-37dB	-40	-7.0	-35	-35	P	170kHz	P
SFE10.7MH-A	110kHz	-32.6	-25.0	-8.5	-39.2	-57.1	F	350kHz	F
SFE10.7MK-A	130kHz	-32.7	-27.2	-7.6	-43.4	-60.3	F	350kHz	F
SFE10.7MJ-A	150kHz	-29.6	-23.9	-6.5	-36.4	-59.4	F	380kHz	F
SFT10.7MS3-Z	180kHz	-29.4	-10.7	-9.0	-32.4	-50.5	F	520kHz	G
SKM-3	180kHz	-32.6	-30.1	-6.6	-13.2	-46.1	G	n/a	F
SFE10.7MX-Z	250kHz	---	---	---	---	---	G	670kHz	E

All models from Murata-Erie, except SKM-3 is from Toko.

All data measured in lab unless otherwise noted.

BW=advertised -3dB bandwidth; A=attenuation -400kHz from center frequency; B=atten. -200kHz from c.f.; C=atten. at c.f. (insertion loss); D=atten. +200kHz from c.f.; E=atten. +400kHz from c.f.; F=spurious response (Poor, Fair, Good, Excellent); G=-20dB bandwidth, from manufacturer's data sheet; H=group delay (P, F, G, E).

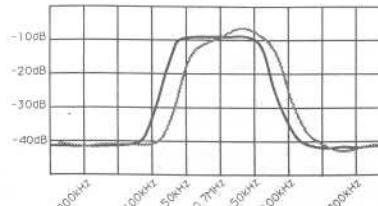


FIGURE 1. Plot of two, 110kHz filters showing ripple and center frequency variation between units.

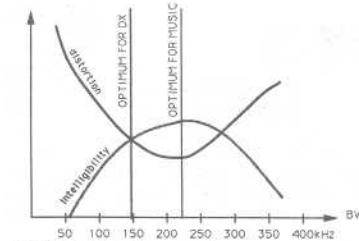


FIGURE 3. Plot of filter compromise.

(2) 4-330R

2 - 1.8K

2 - 10K

2 - 150R

5 - .01uf.

* 1 - 100

* 1 - 560.

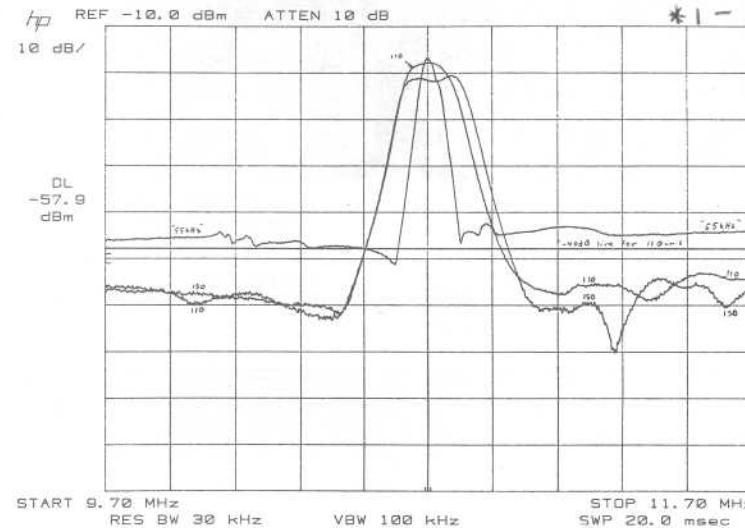
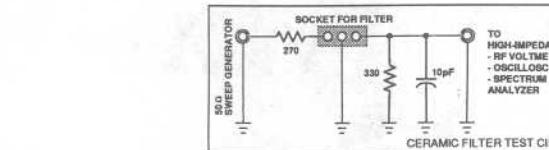


FIGURE 2. Plot of frequency response of three Murata-Erie ceramic filters (actual test data).

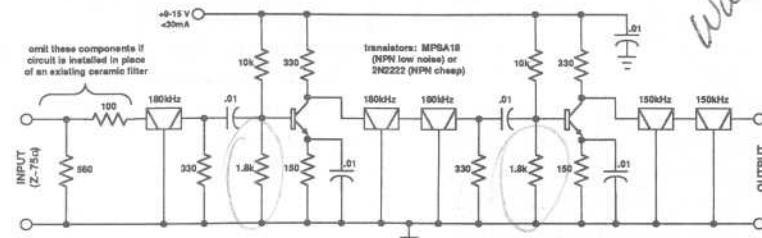


FIGURE 4. Circuit diagram for super-duper IF amplifier using five filters for high selectivity.

TIM McVEY
10338 Hickory Ridge Road #537
Columbia, MD 21044

PHOTO NEWS

NOVEMBER 1990

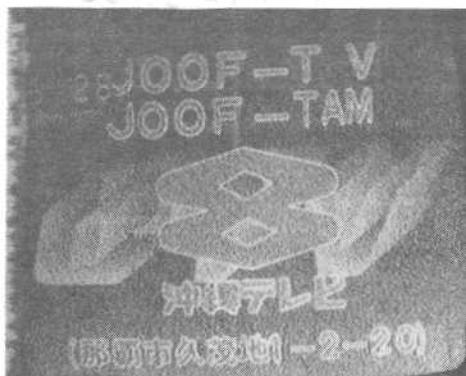
Mailing Address:

PHOTO-NEWS

12284 Nice Rd - Akron NY 14001-9529
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the property of this column and will not
be returned.

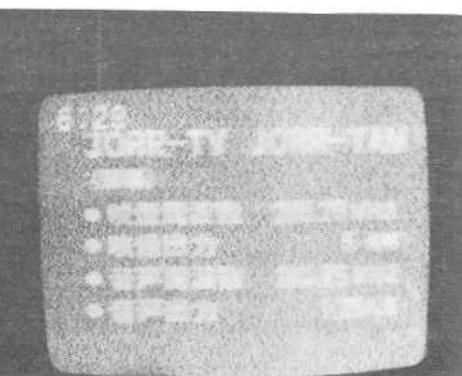
EDITED BY
David J. Nieman

Our first fotos are local reception of commercial TV on Okinawa. They're sent in by Mike Hardester stationed at the time on Okinawa. Equipment: a "loaner" TV North American channel system "M" receiving Japanese channel system "M". The systems are compatible from US channel 8 thru UHF channels. Antenna: rabbit ears.



JOOF-J8
seen on US channel 10

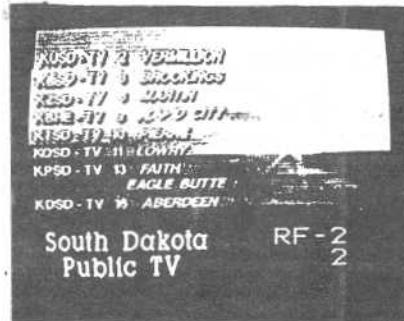
Naha, Okinawa
ERP 5kw visual - 1.25kw aural



JORR-J10
seen on US channel 12

Naha, Okinawa
ERP 5kw visual - 1.25kw aural

Next is Joel Rosenberg - Richmond Hill, Ontario; 15 miles north of Toronto. Equipment: Delhi 1047 VHF antenna, Channel Master 8 bay bowtie, CDE AR-22 rotor atop a 48 foot tower. Leadin: U412 coax for UHF and RG-59 coax for VHF.



South Dakota
Public TV

RF-2
2

KUSD-2

Vermillion, South Dakota
890 mile E-skip
seen May 27, 1990
at 2000 EDT

PHOTO NEWS

NOVEMBER 1990 page 2

Joel was kind enough to send in high quality photocopies of his DX fotos. If the PHOTO-NEWS column contributors have no objection; photocopying could save the WFTDA money?



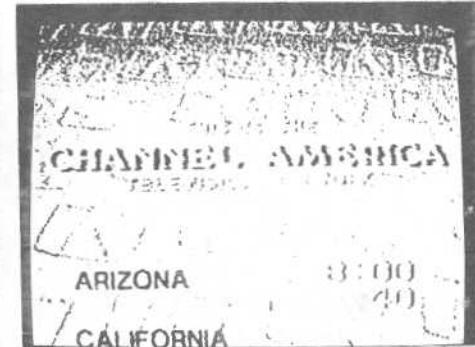
W38AW
Rochester, New York
110 mile tropo
seen May 28, 1990
at 2224 EDT



KBTX-3
Bryan, Texas
1435 mile E-skip
seen May 29, 1990
at 2000 EDT



CBLN4-45
Wingham, Ontario
90 mile tropo
seen June 15, 1990
at 2130 EDT

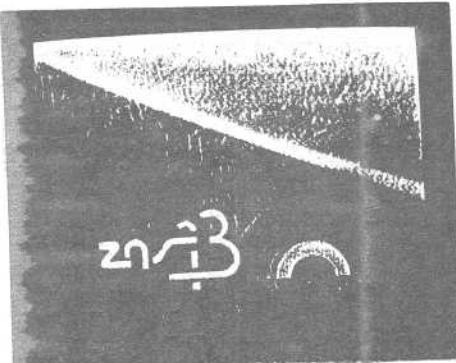


W40AG
Rochester, New York
110 mile tropo
seen June 16, 1990
at 2000 EDT

PHOTO NEWS

NOVEMBER 1990 page 3

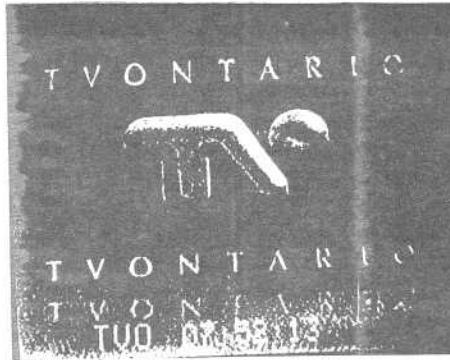
Joel's foto of ZNS Nassau was taken while on vacation their.



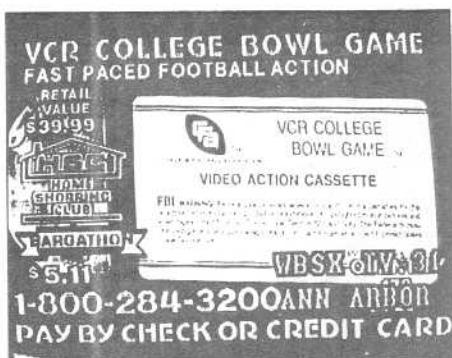
ZNS-13
Nassau, Bahamas
local signal
seen July 14, 1990



CICO24-24
Ottawa, ON - Hull, PQ
215 mile tropo
seen July 19, 1990
at 0751 EDT



CICO95-42
McArthur Mills, Ontario
110 mile tropo
seen July 19, 1990
at 0752 EDT

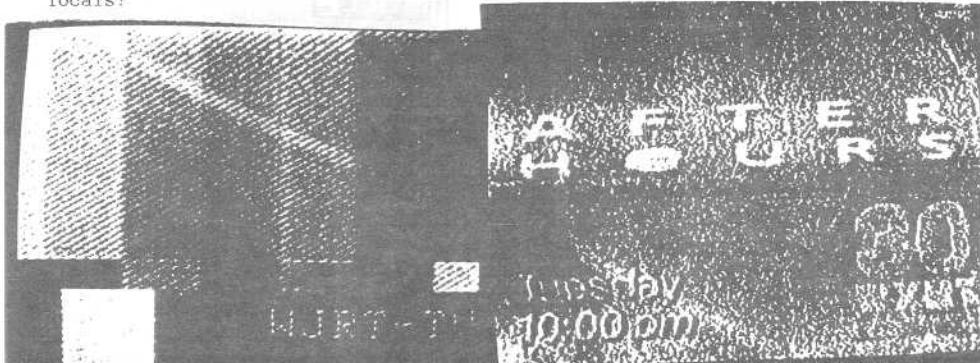


WBSX-31
Ann Arbor, Michigan
230 mile tropo
seen September 3, 1990
at 1901 EDT

PHOTO NEWS

NOVEMBER 1990 page 4

Joel; do you use any preamp with your 8 bay bowtie? too much trouble with the locals?



WJRT-12
Flint, Michigan
225 mile tropo
August 29, 1990
at 0440 EDT



WKAR-23
EAST Lansing, Michigan
265 mile tropo
seen September 4, 1990
at 0900 EDT



WOUUC-44
Cambridge, Ohio
285 mile tropo
seen September 4, 1990
at 2100 EDT

More from Joel next month +, Jeff Kadet - IL, Joe Fela - NJ & me.

Till next time, *DAVE*

NWS NEWS

NOVEMBER 1990

IN THIS ISSUE:
 -More Weatheradio Canada expansions take place in Quebec.
 -Some DX from north of the border
 -Some DX from south of the border
 ...and much more!



Matt Sittel
 PO Box 21421
 501C Wood Hall, NCSU
 Raleigh, NC 27607
 (919) 546-9370
 best times: evenings before 10PM.
 Deadline: 12/1/90
 NOVEMBER 1990
 for 1/91 column

Well, it looks like this will be a short column. The 2 reporters this month both hail from our neighbor to the north, Canada. Let's get to them right now...
 William R. Hepburn, 1211-1547 Mississauga Vly, Mississauga, ON L5A 3X8 Canada

Equipment: Realistic PRO-2004 scanner, 12th floor balcony vertical dipoles

JULY 1990
 21 tr 0744 XLT-839 162.475 ON Goderich 105
 (WXR-Canada u/XMJ225)

AUGUST 1990
 09 tr 0636 AFG-2 270.100 MI Mt.Clemens 175
 (ATIS)
 (Selfridge Air National Guard Base) new UHF-Air distance record. (Congratulations!-mcs)

Comments: XLT-839 was rather unintelligible under local XMJ-225. Best reception was actually made when offtuning to 162.460 MHz (!!!-mcs) Forecast for Huron and Perth counties, etc. AFG-2 (aka KMTC) was state #4 as far as AIR stations go. Continuous best of Selfridge weather and ATC info. see-u, Bill.

Charles Gauthier, 3260 Beaulieu, Brossard, PQ J4Z 2P7 Canada

(Ed. Note: Charles mentions that he sent me a letter in July with this information, but that letter never reached me. His 2nd attempt was successful, though. Read on...)

It seems my last letter got lost in the mail. I hope this one reaches you! Anyway, my July letter contained information about the expansion of Weather Radio Canada. Five new stations replaced, this summer, the answering machine service and they concentrate mostly on the agricultural forecast. Here's the list:

city	frequency	transmitter site
Sherbrooke	162.475	unknown
Trois-Rivieres	162.400	Trois-Rivieres 46°25'N, 72°40'W
Saint-Georges	162.400	Mount Ste.Marguerite 46°20'N 71°08'W
Riviere-du-Loup	162.475	Mount Grands-Fonds 47°46'N 70°10'W
Chicoutimi	162.550	Mount Vallin 48°37'N 70°48'W
On the air already:		
Montreal	162.550	Mont Royal 45°31'N 73°36'W
Quebec City	162.550	Mont Belair 46°48'N 71°30'W
Sept-Iles	162.550	Pointe Noire 50°09'N 66°29'W

NWS DX REPORT

JULY 1990

26 tr 0000-0100

WRC 162.475 Sherbrooke, PQ 60 mi.
 WRC 162.400 Trois-Rivieres, PQ 75 mi. (over KIG-60)
 VFN 161.775 Trois-Rivieres, PQ 75 mi.
 VDN 161.850 Sorel, PQ 43 mi.
 VDO 161.775 Cornwall, ON 67 mi.

Equipment: Realistic PRO 2002
 rabbit ears

Matt Sittel, NWS News Editor

Raleigh, NC DX

AUGUST 1990

		SEPTEMBER 1990
19 tr 0850 unID	162.400	07 tr 0825 WXM57 162.400 VA Heathsville 195
20 tr 0730 WXL42	162.400 NC Winston-Salem 88	11 tr 0801 KIG77 162.4' 5 NC Cape Hatteras 187
27 tr 0758 WXL42	162.400 NC Winston-Salem 88	0848 WXM57 162.400 VA Heathsville 195
29 tr 0737 KEC95	162.400 SC Myrtle Beach 123	0848 KEC84 162.400 NC New Bern 104
0737 WXL42	162.400 NC Winston-Salem 88	12 tr 0748 KEC95 162.400 SC Myrtle Beach 123
0738 KHB31	162.550 NC Wilmington 116	0749 WXL59 162.475 NC Rocky Mount 66
0741 KIG77	162.475 NC Cape Hatteras 187	0749 KHB31 162.550 NC Wilmington 116
1823 WXL42	162.400 NC Winston-Salem 88	13 tr 0813 WXL59 162.475 NC Rocky Mount 66
31 tr 0759 WXL42	162.400 NC Winston-Salem 88	16 tr 1005 WXL42 162.400 NC Winston-Salem 88
0800 WKX65	162.475 VA Richmond 142	1005 WXL59 162.475 NC Rocky Mount 66
01 tr 0727 WKX65	162.475 VA Richmond 142	26 tr 0802 WXL59 162.475 NC Rocky Mount 66
0732 KEC83	162.400 MD Baltimore 272	28 tr 0810 WXL42 162.400 NC Winston-Salem 88
0920 WXL42	162.400 NC Winston-Salem 88	29 tr 0813 WXL42 162.400 NC Winston-Salem 88
05 tr 0848 KEC95	162.400 SC Myrtle Beach 123	0813 WXM57 162.400 VA Heathsville 195
0848 WXL59	162.475 NC Rocky Mount 66	0815 WKX65 162.475 VA Richmond 142
0848 KHB31	162.550 NC Wilmington 116	0847 KHB31 162.550 NC Wilmington 116
07 tr 0722 WXL42	162.400 NC Winston-Salem 88	0847 WXL59 162.475 NC Rocky Mount 66
0725 KHB31	162.550 NC Wilmington 116	2136 WXM57 162.400 VA Heathsville 195
0823 WXL59	162.475 NC Rocky Mount 66	30 tr 2223 WXL59 162.475 NC Rocky Mount 66

...SUPPORT NWS NEWS!!! 73s, Matt

EASTERN TV-DX

November 1990

Cutoff 9-1-90

Deadline 12-5-90

KY UHF Reaches the East Coast! Joe Fela logged WLEX-18-KY at 566 miles along with WDRB (IN) at 636 mi over rough path mountainous terrain to Central NJ. Joel Rosenberg logs WXMT-TN at 657 miles from ONT! William Hepburn WKZT-KY at 525 miles. Some one from Clifton NJ sees 507 mile tropo to NC. John Combs moves to Tallahassee and sees 901 mile Gulf tropo...with just a 4 bay antenna with amp! Does it get better?...Christopher Dunne saw E-skip to Central America on Sept 27! Is this what they call a "good season". YES!
 Note; If anyone has sent a report to this column and it didn't appear, its likely I did not receive it or maybe I might have misplaced it if so; Let me know if a report you sent is not in this column-BN

Saul Chernos PO Box 611 Orillia ONT L3V6K5 (705) 327-7809

From Orillia

June 1990

26 ES 1900 WPBT 2 FL

July 1990

4 TR 2330 UNID 45 ON CBC

August 1990

3 TR 0815 CB-- 33 ON CBC

OTTAWA-(How about CBOT-MAC

ARTHUR MILLS-BN)

0817 CIC- 42 ON TWO

(MAC:Arthur Mills-BN)

August 1990

3 TR 0830 WNPE 16 NY

21 ES 2330 UNID 4

(FM DX TO MN)

"KX-4" NX ment MN

From Burnt River

JULY 1990

1 ES 1230 KJRH 2 OK

SEPTEMBER 1990

5 TR 2313 WWTW 9 MI

SEPTEMBER 1990

6 TR WOIO 19 OH

A very busy summer & not much time to DX. Most effort on FM. May have got into WI on Sept 5/6 on TV ch 10.

J.J. Rosenberg 19 Glenayr Rd Richmond Hill ONT L4B 2W3 (416) 884-8454

JULY 1990

22 ES 2015 MUF 2

27 TR 2301 WSNR 43 NY 175

28 TR 0625 Akron/Canton U's

29 TR 0900 WDSU 34 OH 325

30 TR 2300 W64AL OH 175

AUGUST 1990

10 ES 2130 PBS 2

12 ES 2100 MUF 2

13 ES 1800 MUF 2

14 ES 2200 MUF 2

26 TR 0845 WCET 48 OH 420

PBS 15

UNID 32 Religion

UNID 36 Relig-(Note#1)

29 TR 0425 WUPW 36 OH 250

WOI 19 OH 200

WEYI 25 MI 225

WMSH 66 MI 225

WJRT 12 MI 225

0745 WGTE 30 OH 250

2300 WADL 38 MI 200 (Note#2)

4 TR 0800 WXTM 30 TN 657

0820 UNIDS---28-46

About mid summer, early morn & eve. tropo seemed to shift emphasis from Rochester, Syracuse-Utica to Youngstown.... Cleveland-Akron. Detroit not in as often as other years.

Note#1 Aug 26 opening never picked up enough to make other ID's or tentative guesses.

Note#2 Finally logged WADL-comes in much weaker than other Detroit U's. When visiting Detroit in May 89 they seemed to be as strong as the others.

Note#3 During eve of Sept 4, band was loaded. Not ID'd were several KY ETVs also WTAP-15 last logged in 1972, WHIZ-18-1971, Portsmouth OH-never logged. A memorable opening nevertheless! 1st TN logged via/Tr on Sept 4 (AM/PM) since WTCI-45 in Sept 1972! (Nice going with your TN DXI-BN) 73s Joe!

30 TR 0820 Watertown-WUTR-20	4 TR 0830 UNID 38 HSC
2000 Cleveland U's-s/f	0851 WHME 46 WI 380
2100 Youngstown U's-up	0900 WKAR 23 MI 265
31 TR 0830 "Lake" tropo up	UNID 22 PBS
2330 U's NW OH up	2050 UNID 18
SEPTEMBER 1990	Billy Graham specia
2 TR 0930 Windsor, Toledo U's	2100 WDUC 44 OH 285
UNID 38 Religion	2105 WDUW 20 OH 335
UNID 39 PBS	2115 PBS 22 //20+44
WLTW 44 OH 320	2130 WTVQ 36 KY 480
3 TR 1540 Youngstown U's-strg	UNIDS 38-34-46-62 relig
1600 WGTE 30 OH 250	2230 WSFJ 51 OH 310
WBGU 27 OH 290	2240 Detroit, SW ONT
1830 UNID 22 CBS	2300 WADL 38 MI 200
(How about WYOU-PA ?-BN)	CBLFT 48 ON 150
UNID 28 (Scranton?-BN)	rare
1900 WBSX 31 MI 230	2315 CBLN 64 ON 150
thru CITY @ 80	also rare
1933 WOAC 67 OH 235	2317 UNID 39 Arsenio
2051 WGNQ 52 OH 235	2333 NBC 15 Note#3
4 TR 0800 WXTM 30 TN 657	2400 WEMT 39 TN 563
0820 UNIDS---28-46	12 TR 0745 WGNY 36 NY 170
xltr of WNYB-49	13 TR 2100 W59AV NY 110

Eastern TV DX

November 1990

Jerry Monroe 3135 Falls Road Marcellus NY 13108 *****NEW REPORTER*****

September 1990

6 TR 0230 WWTW 9 MI	6 TR 0200 WSBT 22 IN	6 TR 0215 WKYC 3 OH
0215 WVIZ 25 OH	0200 WIXX 19 OH	0200 WTBN 7 MI
0230 WJRT 12 MI	0200 WTBN 7 MI	0200 WCAK 93.1 OH

Equipment: 10 element Low band at 30ft, 13" Magnavox, Magnavox Hi-Fi VCR, 10 element vertical hi-band stack at 15 feet with "Armstrong rotor" Preamp, FM Trap, ch 14-30 yagi, 14 element, w/ switchable preamp, 30-69 yagi 8 element also Armstrong rotor at 20 feet.

Comments: Location here is 10 miles West of Syracuse NY 1050' ASL (Impressive!-BN) Excellent VHF/UHF spot, high flat land, Rochester, Utica, Kingston, Buffalo, Ottawa, Toronto in all the time (Are there any houses for sale nearby? H1-BN) This report covers excellent Great Lakes Trop '90' w/Mich, Ohio, Indiana all in here. (Welcome to ETVDX, with your set up and location you will clean up with DX often, please report often and tell Bill K. I said hi! -BN)

Best 73's

Greg Coniglio 5100 Glenwood Drive Williamsville NY 14221

September 1990

9 TR 2345 Pittsburg U's W53AU Pitt-Tent	12 TR 1730+W64AK OH 2050 W59BV NY 57 (Rochester w/WNYB-49)	Many others in very strong, Syr Clev, Det, Toledo, S. ONT, Pitts-s/f 27 TR 2030 CFJP 35 PQ 310
10 TR 2330 NE OHIO+ 39 FE Wayne	2125 W62AD NY 135 (Nedrow w/WONY-24)	2200 UNID 39 French 2210 WCPE 57 NY 270 + wk Det, Tol, Clev, 9.24
12 TR 1730 W67AL OH 180 (East Lake w/WVIZ 25)		Ottawa, Hull 40, WFWA 39

Not a bad September for trop. Trop on the 12th and 27th was very strong even stronger than all that hot DX the 1st week of September; although the long distance stuff has not come back. Keep up the good work Bill. Don't let any ungrateful members discourage you. 73s Greg (Thanx Greg, I try to make ETVDX readable and interesting -BN)

William R. Hepburn - 1211-1547 Mississauga V1Y - Mississauga, ON L5A 3XB
(EDT)

Equipment: JVC HR-D630U VCR
12th floor balcony VHF dipole / indoor 4-bay UHF

August 1990

26 Tr 0040 WLKY 32 KY 485 \$	26 Tr 0205 WKOI 48 IN T	27 Tr 0933 WSFJ 51 OH 285
0101 WKEF 22 OH 345	0558 WENA 21 KY 485	1146 WFBO 42 OH T
0110 WTJC 26 OH T	0713 WKPC 15 KY T	
0111 WRGT 45 OH 345	1056 WKZT 23 KY 525	
0159 WIXX 19 (OH) 410 \$	27 Tr 2821 Dayton Us 345	
0201 WCET 48 OH 410 \$	2348 WKOI 48 IN T	

September 1990

Comments: Some good 500 mile+ tropo on Aug 26. Re the mystery ch 43 xtr on WNWO-24 Toledo rcvd on Aug 9 (see Oct VUD). I suspect this was actually CBLFT ch 44 Peterboro. I have often seen this station relay WVIZ-25 while CBLFT-25 is off. Somehow I think ch 24 was carried in as well showing up on ch 43. The stereo audio of "WNWO-43" was very strong while the video was rather weak. This would also support this theory as the 24 audio is closer in frequency than the 24 video to the actual intended input of ch 25. What a mess! I'm going to have to keep my eye out for ch 26s on 45, hi!

CIAO, Bill.

Ed Phelps Rt 2 Box 266 Benton KY 42025 502-527-2289 *****NEW REPORTER*****

Location: 20 miles South east of Paducah KY 485'elevation

Equipment: Channel Master VHF ant, 5 ft dish for UHF, Channel Master 747A VHF/UHF amp 1985 GE TV, 38 ft tower,

First week in Sept 1990;...5,7,35 Chicago 7,16, Quincy 11 6 Davenport IA, 26 Burlington IA, 9 Cedar Rapids IA 49 WI, 39 Rockford, Grand Rapids MI- 13 @ 450 mi, 52 Kalamazoo, 22 S. Bend, 23 Freeport, 35 La Salle, Detroit 56.27+ 21 Madison, 56 Gary Ind, 58 Milwaukee, 11-20-44 Chicago 111, WADL 38 MI, 13 CKCO ONT, CKCO3-42-ONT Band shifting East...OHIO... 35 Lima, 28 Columbus, 14 Oxford, 49 Akron, 51 Newark, 27 Bowling Green, 26 Springfield, MICH.. 62 Det 17 Grand Rapids,...IND WAFAN Indianapolis(Juke box Net)...ILL 49 Springfield,...OHIO...45 Alliance, 21 Youngstown

350 stations to date, from August 1989 to present, TV DX-ers who are Hams, Im on 160 meters (1.883 MC) and late nite 75 meter band (3.940 mc) 11 PM CST , Also Im into R/C model hobby. My Ham call is NN2E, and use SSB. I am looking for up to date TV Listings. (Welcome to ETVDX Ed and we are looking forward to hearing more about TV DX from KY-BN)

Eastern TV Dx

November 1990

Jerry Beaudin PO Box 146 Curtis MI 49820

July 1990

2 TR 2320 WAND 17 IL 459	6 TR 2213 WOAC 67 OH 429	6 TR 2327 CBLN2 34 ON
2325 WICS 20 IL 480	2224 WLLA 64 MI	2329 WEAO 49 OH 409
2329 WHOI 19 IL 429	2225 UNID 69 MI	2330 WFWA 39 IN
3 TR 0959 WKGB 53 KY 631	(W69AV Leeland?-BN)	2332 CKCO3 42 ON
26 TR 0823 WEEK 25 IL 430	2230 W65BT WI	2345 WXON 20 MI 284
0825 WIFR 23 IL 319	2232 WSMH 66 MI 222	2349 CBLN 40 ON 312
0827 WHOI 19 IL 429	2237 WGPB 62 MI 289	2358 WQLN 54 PA 402
0829 WTVQ 17 IL	2238 WQHS 61 OH 389	7 TR 0006 WNED 17 NY 401
0836 WMBD 31 IL 429	2258 WDJT 58 WI 240	0016 CKCO 13 ON 317

September 1990

6 TR 2201 W43AV WI	2305 CBEFT 54 ON	0027 WFMJ 21 OH 436
2204 CBLFT17-68 ON	2308 UNID 53 ON French	0044 WTYV 33 OH 437
2209 WUAB 43 OH 389	2311 WAKC 23 OH 412	0046 WKBD 50 MI 284

2209 WUAB 43 OH 389	2326 WOIO 19 OH 391	0100 WSFJ 51 OH 464
		0107 WVIZ 25 OH 391

The night of Sept 6 was great. Every UHF channel had something on it. (Under normal conditions there are no watchable U's here). I got several channels & states I hadn't got before. The best was ch 15 which I sat on for almost a hour with my antenna pointed towards the S.E. which was the strongest direction. Luckily WTAP stayed on & in longer than WICD. (Jerry is moving 5 miles away to a place with 160 acres and 90' higher elevation. Good luck with your new location and we will be looking forward to seeing more TV DX reports from North Michigan. And thank you for your effort in tracking down a distributor for those 110/130 filters, hopefully these people can help you out. Thank for helping your fellow DX-ers out! -BN)

Christopher S. Dunne 21500 Johnson ST Box 533 Pembroke Pines FL 33029

2 stations on Ch 3 at 0845 on Sept 27 via ES was believed to be GUATEMALA and had a talk show and a commercial for a movie, perhaps Hulk Hogan. Also mentioned "LUX-2 Theater".... The other Ch 3 I believe to be Mexico, it had a female clown. The logo for the GUATEMALA on 3 was the same logo I seen 7 years ago. Also met "GUATEMALTECO". FM had COLUMBIA.... PANAMA, COSTA RICA and HONDURAS.....(Nice going on this DX catch!-BN) (This was phoned into me-BN)

Matt Sittel, PO Box 2142, Raleigh, NC 27607 (919)546-9370

August 1990

27 tr 0842 Conditions up north and south. 13 Florence, SC over local W13CI, and weak WHMM-32 DC (241) in.

28 tr 0841 WHMM again.

2208 Conditions up. WHSW-24 MD (268) and 26 and 32 DC in.
2258 to 2329: North way up. 20 in DC now in with 26 (both 241) but 32 gone (when do they -?). 50 DC (242) also there. 45 and 54 Baltimore in (274,268), along with 53 Goldvein (213). WVIR-29 (158) in well.

29 tr 0754 to 1100: Great opening! Soon after I turned the set on, there was a power outage lasting from 0810 to 1030, approximately. Things were still up after the power came back on! New was WWBT-12 (140) and WTKR-3 (144). 20,28,32 and 50 DC, 24,45,54 Baltimore, then saw

WTKK-66 (225) and WMPB-67 (278), also rare 16 Salisbury (255) about 1040.

1823 to 1900: Severe thunderstorms came through about an hour before, and as usual left some nice signals from nearby stations. Richmond strong with 23 in great and 35 near local strength, and new WCWV-57 (138) noted. Even 26 DC and 53 Goldvein made it in!

30 tr 0824 26 and 32 DC in weak.

31 tr 0800 to 0853: There is a hurricane east of Bermuda...I've got to think that this was the cause of this great DC tropo. 32 and 50 in color, same for 24 Baltimore. 66 Manassas in. 29 Charlottesville weak, and WDBJ-7 even in (132) over WITN-7. 38 Roanoke in color.

September 1990

1 tr 0734 to 1120: Another great morning tropo. 20,26,32 and 50 DC,24 and 54 Baltimore, 29 Charlottesville weak, 66 Manassas, 56 Fairfax in but not 53.

7 tr 0818 to 0840: 32 DC and 54 Baltimore in, but also 24 Charleston,SC (200).

I left out the majority of the loggings under 200 miles that I saw, as it would be a lot of repetition. The last part of September has been unusual because there has been hardly any DX to speak of. Perhaps October will be better. 73s Matt.

Eastern TV Dx

November 1990

Robert S. Ross VE3JFC Box 4373 STN C London ONT CANADA N5W 5J2
Equipment: Toshiba Portable FM Beam-VHF Flying Arrow-UHF

AUGUST 1990

31 TR 2050 WFWA 39 IN	3 TR 2020 WVIA 44 PA	3 TR 2316 WETM 18 NY
SEPTEMBER 1990	2017 WOLF 38 PA	over TVO London!
1 TR 0326 WHEC 10 NY	2026 WBRE 28 PA	4 TR 0510 WPBN 7 MI
3 TR 2000 WNEP 16 PA	2144 WKBS 47 PA	0515 WWTW 9 MI
2010 WYOU 22 PA	2250 WENY 36 NY	0525 CKCO 11 ON
		0550 CBCE 16 ON

Joseph Fela -150 Robert Place - South Plainfield, N.J. - 07080

Equipment: G.E. monitor, Antennacraft P-7 dish @ 35 ft., Winegard PA-4975 amp, rotor.

September 1990

3 Tr 0046 W59AA 59 CT 89 (West Haven WVIT-30)	5 Tr 0130 WNNE 31 VT 240	9 Tr 1300 Harrisburg area
0059 WGCB 49 PA 124	0146 WXIX 19 KY 544	strong (15, 21 o/WLIW
0109 WITAC 17 NY 22 (New York WPIX-11) (WPHL off)	0201 WJET 24 PA 321	27, 33, and 43)
4 Tr 0700 WTBY 54 NY 82	0229 WLEX 18 KY 566	1320 W38AN 38 PA 177
0735 CBLFT 25 ON (See Note #1)	0253 WHAG 25 MD 185	(Chambersburg WITF-33)
1800 WHAI 43 CT 76 (See Note #2)	0255 Home Shopping	1325 WLXVt 65 MD
2000 CICA 19 ON 329	on 28 and 30	(See Note #5)
TV Ontario	(See Note #3)	
5 Tr 0000 WCET 48 OH 545	0259 WKEF 22 OH 519	12 Tr 0102 WWPB 31 MD 185
0101 WNEO 45 OH 350	(See Note #4)	2330 WSBE 36 RI 179
0105 WOTO 19 OH 376	0300 WDRB 41(IN) 636	13 Tr Local WHSE-68 off
0108 WAKC 23 OH 372	(WXTV-41 off)	from about 0000-0030
0114 WYTV 33 OH 327	0303 WKBN 27 OH 327	leaving weak signals
	6 Tr 2034 WUTR 20 NY 180	to the NE (WQTV?)
	2300 WETM 33 VT 276	and NW (WSYT?)
	8 Tr 0930 WETM 18 NY 162	0013 WCIX 58 MA 227
	(WNJB-58 Off)	0035 Boston 25-38-56

Note #1. An unusual bar pattern noted around 0715. Programming started, apparently, around 0730. Man and woman with a morning show, in French, with spots in French.

Note #2 WHAI noted running some spots. In the middle of one, they went to a slide announcing their sign-OFF (at 6 p.m.!) and pulled their carrier seconds later.

Note #3 About the Home Shopping Club noted, 28 was not WBRE and 30 was not WVIT. In view of the area coming in, OH, KY, or ??? seem possible. Anyone with any ideas?

Note #4 Time approximate as I failed to write it down but a positive ID was caught. Unusual programming at time: continuous used car ads!

Note #5 This over WHSP-65. Cumberland ad noted, then into a taped football game (looked like a high school game taped a previous evening - cable quality coverage).

As for the lack of VHF DX, I plan to only DX UHF. As I am in the New York Metro area, 22 miles from Manhattan (not to mention 58 miles from Philadelphia), there aren't too many DX possibilities on VHF. But it is interesting to see what is possible on UHF. As Washington, Baltimore, Annapolis, Salisbury, Hartford (+ WGGB-40), Northeast and Central PA, and Binghamton are all very common, I will not bother listing them except for unusually good receptions. Even then I may not.

For those looking for WYBE-35, they are on nightly from about 1900-2300 and that's it. I don't understand the existence of this station. They were off for about 10 days around the beginning of September. I'm told that was due to a lightning strike.

73, Joe

John F Combs PO BOX 7581 Tallahassee FL 32314 904-878-6317 NEW ADDRESS & PHONE
 (Ed; John called me and wrote to me and mentioned he had just moved to Tallahassee FL after being offered a promotion in his job, he saw with a 4 bay and 4990 amp; Trans gulf tropo CH 23 Brownsville TX @ 875 mi & CH 9 Renosa MX(ECO) at 901 miles! John, congratulations on your promotion! We all look forward to hearing more on your super DX!-BN)

Eastern TV Dx

November 1990

Jeff Wolf 1131 University Blvd W, Apt 701 Silver Spring MD 20902

August 1990

29 TR 0039 WPTF 28 NC 251	1 TR 0559 UNID 8 z CCI	5 TR 0200 WTTE 28 OH 319
WKFT 40 NC 265	GW 0600 WUSA 9 on	0225 WKFT 40 NC 265
WYED 17 NC 248	TR 0603 WLFL 22 NC 251	0035 WKBN 27 OH 238
30 TR 0726 WRDG 16 NC 251	0614 WJKA 26 NC 344	0318 WCBS 2 NY 196
+WYED-17,NC-28-40	0633 SC,NC 25 t	(my local Hi-BN)
	0636 WUNP 36 NC 195	UNID 2z
	0637 WUNJ 39 NC 344	WMAR off
	0710 WLXI 61 NC t	0647 WBBC 16 MD-cci
	WGFT 48 NC 256	0720 WYED 17 cci-z
	o/W4BAW	NC 28-40
	WUNM 19 NC	1807 WJKS 17 FL t
	0729 WJPM 33 SC 358	over WYED
	WRKL 35 SC 409	1820 WKFT 40 NC 265
	NC 11 vgd	1835 WAMS 30 FL t
	0733 WITN 7 WNCT-9	1940 WDLL 17 OH t
	cci o/locals	2320 WPTF 28 NC 251
	0738 WRAL 5 NC t	6 TR 0706 OHIO 22,33t
	gd to vgd over	WNEO 45 OH
	WJZ, ID at 0345	7 TR 0635 NC-11-28-39-40
	0343 WRDG 16 NC 251	0755 WNUJ 47(NY) t
	ID 3/4 CB	(Jeff call me I'll confirm
	WTAT 24 SC t	if it is them-BN)
	cci WHSW	8 TR 1951 WQEX 16 PA 40
	0345 WPTF 28 NC-s/f	WUAB 43 OH t
	GW 0352 WMPT testing	11 TR 0650 WYED & WPTF
	TR 0405 UNID 7,9 lcl's off	12 TR 0639 WUAB 43 OH t
	0535 WPTF lcl qual	WKFT 40 NC 265
	0541 WFXI 8 NC 289	14 TR 0130 WNEO 45 OH t
	ID 3/4 CB	18 TR 2231 WQEX 16 PA
	WGAL 8 PA	21 TR 1800 WJJW 16 SC t
	8 cci	WYED 17 NC 248
	0545 WECT 6 NC t	1805 WTAT 24 SC t
	0546 SC 15 3/4 CB	1812 WJKS 17 FL t
	0557+WCII 12 NC 269	1939 WDLL 17 OH t
	VA 12 s/on ID 3/4 CB	2000 WAKR 23 OH 278
	1100 fade outs	2347 WJW-16t,WJKS-17t
	0558 WGAL 8 PA-s/on	22 TR 0037 WPDE 15 SC t
	WTFX- 8,8-WRIC	0156 Fade outs
	VA 8 CB-TP	1440 WYED 17 NC 248
	0559 WRIC 8 ID-CB	0200 WQEX 16 PA
	Local quality	1915+WYED 17 NC 248

That dude from Joisey (Da Editor) P.U. BOCKS 2999 Clifton Nue Jerrzy 070000015 (zap cord)
 (sorry...I couldn't resist-Heh!)

Sept TR-The last 4 days had DX mainly to MD. Late nite/Early morn had WBOC-16,22,28,45 and even WMDT-47-MD w/lcl off, added WFMZ-69-PA on 13 w/lcl 68 off. OK avg tropo.

October 1990

4 TR 0000+ Front approaching and High Pressure still in area. Per Joe Fela tip, lcl 68 off temp, to the NW UNID 68 Likely WSYT 68 Syracuse in/out with Arsenio Hall, lcl 68 back on 0102*88! 24 Syr-gd, York 43,WCDC-19-MA-s/f, WNEO-31-UT real good!, lcl off+ Albany 23 Tired went to ZZZZ.
6 TR 0640+DELMARVA,NORFOLK VA Areas;WGN-27-VA-307, WUNJ-39-NC-507 (farthest UHF DX to date) ID w/3/4 CB & "NCPT" 0720 WTKE-66-VA-245, WTVZ-33-VA-307, MPT-22,28,0800 WBOC-16-MD-s/f, All gone by mid morn.
7 TR 0010+ Boston 25,38,56,66, CT-26, Spr 40 ALL LOCAL QUALITY & s/f 0015+ UNID 50(lcl off) to the NE with a classical music prg. NOT 50 DC with the same direction as Boston I think it could be Derry NH! Are they on the air? Did they run a classical music prg? they were gone in 10 minutes •! 0750+ Harrisburg,York, Allen town PA U's all Local & bleeding over! WHP-21-PA SOLID over lcl MLW!!!!
9 TR 2300+ DELMARVA,NORFOLK VA-300 m� Not as good as the opening on the 6th . FM was better.Gone in 2 hrs.

Comments; Norfolk VA did not seem common here this past season on trop, so the Oct 6th opening was very welcome and of course WUNJ-39-NC at 507 miles. Considering how far out that was I still have hope of perhaps seeing South Carolina or (gasp!) Florida. One can only hope. The NJ DX-ers in the Central part of the state seem to get out better to the South and Southwest than I do, but here in Clifton (NE New Jersey) I get out better to the North & North East (Albany NY, Adams MA & Boston). For example Joe Fela gets Hagerstown MD on trop, I have never seen Hagerstown here...not a trace. I have seen WXXA Albany NY countless times , Joe has not even seen a sync bar out of them! It is really amazing how only some 30 miles can make a Major difference! Hopefully trop will continue

WESTERN TV-DX

November 1990

New New Mode - Tent. - t Unidentified - unid S/On - + S/off - =
 ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &
 Parallel Programming - // MTS Stereo - \$

BN Baja California Norte CH Chihuahua CU Coahuila NL Nuevo Leon
 ZA Zacatecas

William Draeb, Ellis St., Rt. #2, Kewaunee WI 54216 (414-388-2350) CDT

Equipment:
 7' Finco dish, B-T CMA-Ub preamp @ 93', .750 cable. Stacked Finco high band
 yagis @ 100' with RG/11 cable. Second tower, 40', with Winegard CH-2026 (lo-
 band) yagi. Zenith 14N22 table model 23" b&w (1971) with B-T BTU-2s UHF
 converter (used for UHF and also the stacked hi-band yagis) and Zenith 16J20
 19" b&w (early 60's) (used with antennas on 40' tower). Panasonic 9" b&w
 portable.

August 1990	27 tr 1916 WCCO 4 MN 280 (Snow free)	2 tr 2030 W2AAI 24 IN 190 (Michigan City TBN)
25 tr 0556 @WEIU 51 IL 345	0620 WDKY 56 KY 480 (Twin City U's)	2115 WTVQ 36 KY 473 (Abv 2 snowfree)
	WAFF 48 AL 685 (so-so)	2133 WCVN 54 KY 407
0633 WSEE 35 PA 405	29 tr 1830 W43AV 43 WI 105 (Waukesha LPTV-CHA)	WKON 52 KY 437
1359 WCET 48 OH 400	30 tr 0700 WCET 48 OH 400 (Waukesha LPTV-CHA)	2236 WEIU 51 IL 345 (Snow free)
WIII 64 OH 400	WIII 64 OH 400	W57AO 57 IL 370
WXIX 19(OH) 400	WIII 64 OH 400	W57AO 57 IL 370
WCNT 54 KY	WKCN 52 KY 437	W57AO 57 IL 370
WPBO 42 OH 461	WDRB 41(IN) 437	(Robinson LPTV-TBN)
WOSU 34 OH 395	31 tr 0600 W30AL 30 IL 199 (Plano LPTV-CHA)	W34AY 34 IL 300 (Champaign LPTV-TBN)
1408 WNEO 45 OH 405	1815 W45AJ 45 IL 165 (Rockford LPTV-CHA)	WVTV 29 NY 445
2100 K5BCM 58 MN 275 (Duluth TBN)	Cincy UHF's 400	WNUJ 16 IL 402
KSAX 42 MN 374 (Snow free)	WVTV 29 NY 445	WVTV 22 IN 405
Twin City U weak	33, 62, 68 also	WNED 17 NY 445
W57AF 57 WI 145 (Sayner WSAW- 7)	in snow free	WNYB 49 NY 445
2155 KAWBT 22 MN	1830 KSPR 33 MO 589 (Jerry Lewis MDA)	CIII41 41 ON 410
2207 Twin City U good	KDEB 27 MO 589	CFMT 47 ON 410
26 tr 1808 WTVQ 36 KY 473	KOZK 21 MO 589	CITY 57 ON 410
WLET 46 KY	KMZ 17 MO 470	0828 KDNL 30 MO 432
WCET 48 OH 400	KSNF 16 MO 630	CIVO 30 ON 582
WKN 52 KY 437	1932 WHSL 46(MO) 432 (Jerry Lewis MDA)	CICO24t 24 ON
WDRB 41(IN) 430	K52AYt 52 MO	1507 WDRB 41(IN) 437
1835 WYMT 57 KY 550	1951 KDNL 30 MO 432	1528 WJET 24 PA 405
WSBN 47 VA 587	2005 K58DHT 58 MO	WSEE 35 PA 405
1838 WMSY 52 VA 612	2129 WNEO 45 OH 405	WQLN 54 PA 405
WKSOT 29 KY	2206 KFVS 12 MO 512	WETGT 66 PA (u/ WSMH & WQBO)
WXIX 19(OH) 400	September 1990	1731 WNPEL 16 NY
WENT 39 TN	1 tr 0158 KPTMt 42 NE	WFYFt 50 NY
WIII 64 OH 400	0532 WKBN 27 OH 420	WGNN 52 OH 325
2050 WPBOT 42 OH	2 tr 2020 W47AZ 47 IN 320 (Indianapolis VJN)	1800 Peoria's U's (Snow free)
27 tr 1823 WOSU 34 OH 395	WCET 48 OH 400	1830 WAKC 23 OH 380
WTET 28 OH	WDRB 41(IN) 437	1900 Youngstown U's including ch 58
WGRB 34 KY 515	WKMJ 68(IN) 430	WNEO 45 OH 405
WTVQT 36 KY	W43AV 43 WI 105	WEAO 49 OH 380
WCON 52 KY 437	(Abv 3 snowfree)	WPGHT 53 PA
WCET 48 OH 400	W69BT 69 IN 200	WOAC 67 OH 390.
1825 WMSY 52 VA 612	(Grand Rapids TBN)	WSFJ 51 OH 395
WDRB 41(IN) 437	(Morse code ID)	WPCBT 40 PA
1912 WPBO 42 OH 461	WIII 64 OH 400	1915 WCET 48 OH 400
WXIX 19(OH) 400	W69BT 69 IN 200	WDLI 17 OH 395
1916 WYMT 57 KY 550	(South Bend WCIU-26)	

Fred McCormack
 Box 9077
 Prairiewood Station
 Fargo, ND 58106-9077

Deadline: 12-06-90
 Cut-off: 09-01-90

Western TV-DX

November 1990

3 tr 1915 WBNX 55 OH 380	7 tr 1737 WPBO 42 OH 461	20 tr 2008 WXMIt 30 TN
CBLFT17 68 ON270	11 tr 2206 W54AF 54 OH 340	WUSI 16 IL 402
2051 CBLN2 34 ON 270	(Bucyrus LPTV)	WFIE 14(KY) 420
2055 WYMT 57 KY 550	WOAC 67 OH 395	2017 WEIU 51 IL 345
WIII 64 OH 400	WSFJ 51 OH 395	WFLL 53(GA) 670
WKMJ 68 KY 437	WOSU 34 OH 395	2023 WTCI 45 TN 650
WDKY 56 KY 480	WPGH 53 PA 480	WDSI 61 TN 650
WEMTt 39 TN	WGNN 52 OH 315	WJSU 40 AL
WGRB 34 KY 515	WPPTT 22 PA	WDKY 56 KY 480
WKSQ 29 KY 538	WQEXT 16 PA	WKMJ 68(IN) 437
2115 WKON 52 KY 437	WOUC 44 OH 427	WKON 52 KY 437
WKPC 15(IN) 430	WEAO 49 OH 380	WNALT 44 AL
Erie 24, 35, 54 (Snow free)	WKBST 47 PA	WFIO 36 AL
Most lower ON	KSAX 42 MN 374	WGRB 34 KY 515
U's booming in	KRWF 43 MN 395	WKSQ 29 KY 538
WETGt 66 PA	(Snow free)	WEHT 25(KY) 420
Kitchener 56, 61	Twin Cities V's and U's good	WHIQ 25 AL
London 18, 40, 53	12 tr 0530 WQLN 54 PA 405	WCTE 22 TN 587
WNYBt 49 NY	WSEE 35 PA 405	WCLP 18 GA 685
Sarnia 34 and 68	CCII127 27 ON 458	(A- "Chatsworth-Dalton")
CBLN4 45 ON 310	(Briefly)	WKPC 15(IN) 437
WNEO 45 OH 405	0548 WPCBT 40 PA	2122 WKLET 46 KY
2011 CFMT 47 ON 410	Plus lots of the same as 09/11	2130 WAAY 31 AL
	15 tr 0649 @WUSI 16 IL 402	WSBNT 47 VA
CBCE 16 ON 270	WEIU 51 IL 345	WMTT 28 TN
W64AK 64 OH 385	20 tr 2003 WAFF 48 AL 685	WLEX 18 KY 473
(Conneaut WVIZ-25)	WZDX 54 AL 685	2202 WKHA 35 KY 554
Youngstown 21, 27 and 33	WKGB 53 KY 553	WEWT 39 TN 613
	WEV 44(KY) 420	21 tr 0515 WKHA 35 KY 554
2130 CITY 57 ON 410	WBMT 42 AL	WKPT 19 TN 620
2223 W58AM 58 OH 420	WDRB 41(IN) 437	WTVQ 36 KY 473
(Youngstown WNEO-45)	(Still indie)	0630 WCET 48 OH 400
7 tr 1737 WDRB 41(IN) 437	WTVQ 36 KY 473	1827 WDRB 41(IN) 437
	WZTVt 17 TN	

I noticed W45AJ, Rockford IL, snow free with Channel America programming as was W43AV, Waukesha WI. Some of the commercials on the two stations were different though at the same time; probably locally originated.

After considerable thought, I've concluded that my logging of KNBC-4 on May 28th was only tentative. I didn't see enough information to be more conclusive.

Doug Allen, P.O. Box 5646, Woodland Park CO 80866 (W2CRS) (719-687-3549) CDT

Equipment:

1981 11" black and white Magnavox or 1977 11" black & white Panasonic, with a Channel Master 1110 @ 35' with a Channel Master 0095 preamplifier and HAM-M rotor. On UHF - Antennacraft Y44G up 40' and a Radio Shack 15-1115 UHF preamplifier.

September 1990

11 tr 0410 KMTVt 3 NE	18 tr 0735 KRNET 12 NE ne	20 tr 0801 KPNET 9 NE
(CNN News - KTFS off air)	20 tr 0710 KSWK 3 KS 230	(PBS - occ. over nulled KUSA)
0422 KSNK 8(KS) 240	(Stronger than semi-local KTFS)	27 gw 0359 KO6-- 6 CO
0500 KUPK 13 KS 255	KBSL 10 KS 190	(Unknown nw KCNC- 4)
(Local KRDO off)	(Strong)	0400 KO6-- 6 CO
0730 KSTF 10 NE 220	0712 KWCHT 12 KS	(Unknown sw KUSA- 9)
16 tr 0242 KSTF 10 NE 220	0730 KUPK 13 KS 255	0402 K13-- 13 CO
0250 KAYSt 7 KS	(o/ local KRDO!)	(Unknown nw KUSA- 9)
18 tr 0730 KSTF 10 NE 220	KSNG 11 KS 240	October 1990
	0800 KOODt 9 KS	1 tr 0149 WIBWt 13 KS
	(CCI on KUSA)	(Local KRDO off)
	0205 unid ch 5 ne CNN	

Some strong openings up to 300 miles, but little beyond that since the antennas went up on the tower. I noted Topeka, Lincoln and Kansas City weekly on FM briefly on October 1st when tentative WIBW-13 was observed. My VHF TV system now compares

Doug Allen (continued) favorably with my FM system, but channels 3, 6, 8, 10, and 12 are normally the only open ones here as the others are mostly no silent period. My Radio Shack UHF preamplifier is overloading, giving me images on so many channels that I haven't tried to sort things out there.

(Doug, I think your channel 6 with KCNC-4 and channel 13 with KUSA-9 may be KO6DA and K13FM, respectively, at Alma and some 59 miles from your QTH. I think your channel 6 with KUSA-9 may be KO6HF serving Buena Vista and Salida 62 miles from your QTH. The Alma translators are about 3.8 miles north northeast of Alma at around 12000' asl. The power is listed at 21 Watts ERP. The Buena Vista/Salida translators are located on the eastern slope of Mount Princeton at about 10500' asl. The power is listed at 14 Watts ERP. You might want to check your topo maps for path obstructions. fm)

Frank Merrill, P.O. Box 669, Macomb IL 61455 (309-833-2661) CDT

Equipment: See October 1990 Western TV-DX

July 1990	3 Es 1729 KKTO 2 NM 920	8 Es 1700 WUFT 5 FL 875
1 tr 2214 KSNB 4 NE 385	tr 2100 most WI U's	1715 WSAV 3 GA 775
2 tr 0007 KUSD 2 SD 409	2326 K4000 40 IA 270	1800 WPBT 2 FL 1165
KYNE 26 NE 286 (Rare)	(Storm Lake KMEG-14)	1930 WWAY 3 NC 810
KSIN 27 IA 326	4 tr 0540 WCMU 14 MI 370	2000 WKRG 5 AL 690
WLEF 36 WI 379	0600 out to 400 miles	KGMN 5 WY 750
0040 KCAU 9 IA 325	all directions	2128 WFSB 3 CT 930
W43AG 43 KY 295	except south	spent time on FM
(Hopkinsville LPTV)	Es 1928 KDTN 2 TX 646	9 Es 0046 CKCK 2 SK 960
WEWT 39 TN 525	1929 KDFW 4 TX 646	1700 KVTK 3 AZ 1275
WFLI 53 TN 490	6 tr 0635 WKPC 15(IN) 294	2102 KVBC 3 NV 1350
WDSI 61 TN 465	Es 0814 WWAY 3 NC 810	2104 KMID 2 TX 865
0400 W36AK 36 TN 367	W36AK 36 TN 367	2128 KIDY 6 TX 825
(Nashville TBN)	Es 1859 WKTV 2 NY 825	KACB 3 TX 820
0529 @KABY 9 SD 488	1954 WMAR 2 MD 745	2200 KIII 3 TX 970
0543 KDLO 3 SD 470	2000 WRC 4 DC 726	2215 KGBT 4 TX 1070
(CCI only)	(Previous by ms)	2314 XEPM 2 CH 1070
1820 WSBN 47 VA 496	tr 2040 WEWT 39 TN 526	11 Es 1230 KNAZ 2 AZ 1200
1915 WWTW 9 MI 370	WKPT 19 TN 535	KKTO 2 NM 920
1958 WGTV 8 MI 506	(CCI only)	1330 KENW 3 NM 860
2000 WWUP 10 MI 507	Es 2119 WWAY 3 NC 810	KAMR 4 TX 705
2100 W69AV 69 MI 410	7 tr 0235 @WJHL 11 TN 536	1339 KDBC 4 TX 1065
(Leland WCMV-27)	(All night bars)	1400 KVTK 3 AZ 1275
2151 WSCO 14 WI 330	0455 WEWT 39 TN 526	XHPN 3 CU 985
WHRM 20 WI 310	WLOS 13 NC 552	1617 KCCZ 4 UT 1215
WHWC 28 WI 320	(CCI only)	KPRC 2 TX 800
WLEF 36 WI 380	nothing else	KACB 3 TX 820
WPNE 38 WI 305	Es 1218 WTVJ 4 FL 1165	1713 KWAB 4 TX 825
2200 WBAY 2 WI 305	1300 WPBT 2 FL 1165	(Rare)
(Rare)	WESH 2 FL 955	KMID 2 TX 865
WFRR 5 WI 303	1336 XEJ 5 CH 1070	1729 KFDX 3 TX 628
WJFW 12 WI 365	1344 KGBT 4 TX 1070	1919 XEPM 2 CH 1070
WLUK 11 WI 305	1356 KRKV 5 TX 1070	KENW 3 NM 860
2316 CICO19 19 ON 633	1400 WJXT 4 FL 870	KDBC 4 TX 1065
(Under WHOI-19)	(See Note # 3)	(See Note # 3)
(Same offset)	1448 WSAV 3 GA 775	CFQC1 3 SK 1150
3 tr 0116 =W27AU 27 WI 310	1729 KWGN 2 CO 770	2100 KVBC 3 NV 1350
(Wausau WJFW-12)	2056 CKCK 2 SK 960	2102 KATC 3 LA 725
WEAU 13 WI 290	2104 CFRN 3 AB 1380	KIII 3 TX 970
(See Note # 1)	2125 CITL 4 AB 1270	2300 KWGN 2 CO 770
0143 (See Note # 1)	CFAC 2 AB 1345	KTWS 3 CO 650
0253 CKNC 9 ON 637	2200 KRTV 3 MT 1130	(Rare)
(See Note # 2)	KXLY 4 WA 1400	KOAA 5 CO 755
0305 W24AI 24 IN 215	8 Es 1331 WWAY 3 NC 810	1900 XEFB 2 NL 1165
(Michigan City TBN)	1400 WCIV 4 SC 795	2246 KOAA 5 CO 755
0324 CICO13 ON 552	1500 WTVR 6 VA 732	1912 XHIT 4 CH 1195
0420 WWTW 9 MI 370	12 Es 1300 (See Note # 4)	// XHRED-13)
0443 @WPBN 7 MI 365	WRLA 5 NC 735	10 tr 0107 KTBO 14 OK 500
3 tr 0448 WLUC 6 MI 429	WUND 2 NC 835	1921 KVBC 3 NV 1350
	1700 WESH 2 FL 955	KARD 14 LA 585
		2000 KNAZ 2 AZ 1200
		Es 1400 KNAZ 2 AZ 1200
		XHQZ 3 ZA
		1900 WEDU 3 FL 995
		2020 KTVK 3 AZ 1275
		2026 XHBC 3 BN 1476
		1930 WTVY 4 AL 715

Frank Merrill (continued)	20 Es 1630 WCBD 2 SC 795	10 Es 2100 WPBT 2 FL 1165
	2200 KTVQ 2 MT 965	WDIQ 2 AL 660
12 Es 1315 KTVK 3 AZ 1275	2025 KUTV 4 UT 1130	WWL 4 LA 730
1330 XHFI 5 CH 1195	2035 KUTV 2 UT 1125	KMID 2 TX 865
1500 KVBC 3 NV 1350	KSL 5 UT 1130	2200 WESH 2 FL 955
1530 KPHO 5 AZ 1275		WEDU 3 FL 995
1600 KTVS 3 CO 650		17 tr 0141 W54-- 54 ??
KCCZ 4 UT 1215	August 1990	(Unknown Family Ch)
1700 KSL 5 UT 1130	1 tr 0330 Cleveland, Pittsburgh, Columbus	(Paducah ??)
1736 KUTV 2 UT 1125		K45CA 45 MO 220
13 Es 1330 KENW 3 NM 860		(Cape Cirardeau TBN)
KDBC 4 TX 1065		0400 W20AG 20 WI 270
2000 KBME 3 ND 661		(Sheboygan TBN)
CKND2 2 MB 820		1834 W65BV 65 IL 70
2159 KKTO 2 NM 920		(Springfield WSEC-14)
2317 KOB 4 NM 935	0400 WPXI 11 PA 557	18 ls 0025 WQHS 61 OH 470
2320 KTVK 3 AZ 1275	WPCB 40 PA 570	se snow free to
14 Es 2045 KREM 2 WA 1404	WVIZ 25 OH 465	300 miles
2100 KLEW 3 ID 1380	WTRF 7 WV 520	K45CA 45 MO 220
KXLF 4 MT 1155	WTOV 4 OH 525	W43AG 43 KY
2211 WCAX 3 VT 945	WTOL 11 OH 390	(Open carrier)
WLBZ 2 ME 1150	WTVG 13 OH 385	24 tr 2100 CITY 57 ON 616
2217 CBAFT1 5 NB1296	WPTD 14 OH 320	Canada 42,45,48,
CHSJ 4 NB 1274	WPTD 16 OH 340	54, 61, & 68
15 Es 1929 WFSB 3 CT 930	WHIZ 18 OH 457	Cleveland CCI 470
2305 KBCI 2 ID 1320	(Over WLFI)	Toledo 390
16 Es 0033 KUTV 2 UT 1125	WBKN 27 OH 523	Birmingham Us525
0100 KREG 3 CO 885	0452 WHSE 68 NJ 871	Huntsville Us450
17 Es 2058 WWAY 3 NC 810	0508 WNPB 24 WV 576	2235 WTCI 45 TN 465
2100 HSJK 2 TN 491	0525 WTG1 61 DE 810	2330 WYMT 57 KY 459
(See Note # 5)	(CCI only)	WATL 36 GA 574
2113 WCBD 2 SC 795	0530 K58DH 58 MO 135	WDSI 61 TN 465
2200 KKTO 2 NM 920	(St. Louis VJN)	(Snow free)
18 Es 1800 CFQC1 3 SK 1150	0535 WFMZT 69 PA	25 tr 0130 Nashville, Cincinnati, etc.
CBCP1 3 SK 1070	0550 WOUC 44 OH 490	0230 W30AL 30 IL 140
1830 KACB 3 TX 820	WOSU 34 OH 405	(Plano CHA)
WUNC 4 NC 695	0608 WHSE 68 NJ 871	0231 W19BA 19 MI 306
1838 WUND 2 NC 835	(Still in weakly)	(Grand Rapids TBN)
unid ch4+ Mexico	2030-2130	0307 CII141 41 ON 616
1929 WRAL 5 NC 735	WPXI 11 PA 557	0311 W62BU 62 IL 150
2000 WTRK 3 VA 805	WPGB 53 PA 555	0332 CII122 22 ON 437
19 Es 0333 CKND2 2 MB 820	WJW 8 OH 469	0355 CII127 27 ON 584
ch3 3,4 - CKB1?	WQHS 61 OH 470	0403 @CKCO4 11 ON 678
ms 0417 HSIL 3 IL 218	WNNO 24 OH 390	0414 W43AV 43 WI 215
(Previous by tr)	WUPW 36 OH 390	tr 0430 WPBZ 62 MI 410
tr 0430 WPGR 62 MI 410	WTSF 61 KY 460	(Waukesha CHA)
Es 0445 all fade out	WPBY 33 WV 469	0443 CICA51 51 ON 616
1000 WPBT 2 FL 1165	2230 WSNP 9 WV 545	("Good Morning"
1020 KMOL 4 TX 885	2 tr 0305 W62BU 62 IL 150	all night ID)
1030 KIII 3 TX 970	(Rockford WWT-35)	1900 WFWA 39 IN 290
1127 WESH 2 FL 955	0446 WCMH 4 OH 402	WNNO 24 OH 387
1207 WUFT 5 FL 875	0549 W29A1T 29 OH CCI	(Snow free)
1330 XEJ 5 CH 1070	Es 1832 KREG 3 CO 885	(CII only)
1919 XEPM 2 CH 1070	KOTN 2 TX 645	CBLN 40 ON 508
KAMR 4 TX 705	1900 KENS 5 TX 885	CICO53 53 ON 508
1339 KDBC 4 TX 1065	WXYZ 7 MI 408	WXYZ 7 MI 408
1400 KVTK 3 AZ 1275	1930 KMOL 4 TX 885	(CCI only)
XHPN 3 CU 985	2000 KENW 3 NM 860	0308 WYTV 33 OH 524
1617 KCCZ 4 UT 1215	2030 WUFT 5 FL 875	0108 WYMT 57 KY 459
KPRC 2 TX 800	(Rockford WWT-35)	0215 WPTT 22 PA 572
KACB 3 TX 820	1900 KOTN 2 TX 645	0200 WNYB 49 NY 647
1712 KWAB 4 TX 825	1930 KENS 5 TX 885	WPGH 53 PA 557
(Rare)	1223 KJAC 4 TX 735	0258 WTAJ 10 PA 639
KMID 2 TX 865	KENS 5 TX 885	0318 W25 25 ??
1729 KFDX 3 TX 628	KAMR 4 TX 1065	(?? Hit Video USA)
1919 XEPM 2 CH 1070	KOTN 2 TX 645	(Or WHAG relog)
KENW 3 NM 860	KACV 2 TX 705	0324 WDCA 20 DC 725
KDBC 4 TX 1065	KKTO 2 NM 920	0329 W21AI 21 OH 420
1919 XEPM 2 CH 1070	1900 XEFB 2 NL 1165	(Weak)
KENW 3 NM 860	2246 KOAA 5 CO 755	(Portsmouth TBN)
KDBC 4 TX 1065	1912 XHIT 4 CH 1195	34
CFQC1 3 SK 1150	8 tr 2300 WQHS 61 OH 470	35
2100 KVBC 3 NV 1350	10 tr 0107 KTBO 14 OK 500	
2125 KATC 3 LA 725	1921 KVBC 3 NV 1350	
KIII 3 TX 970	0149 KARD 14 LA 585	
2300 KWGN 2 CO 770	2000 KNAZ 2 AZ 1200	
KTWS 3 CO 650	Es 1400 KNAZ 2 AZ 1200	
(Rare)	XHQZ 3 ZA	
KWGN 2 CO 770	1900 WEDU 3 FL 995	
CFQC1 3 SK 1150	2020 KTVK 3 AZ 1275	
2100 KVBC 3 NV 1350	2026 XHBC 3 BN 1476	
2125 KATC 3 LA 725	1930 WTVY 4 AL 715	
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 3)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 4)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 4)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		
2100 KVBC 3 NV 1350		
2125 KATC 3 LA 725		
KIII 3 TX 970		
2300 KWGN 2 CO 770		
KTWS 3 CO 650		
(See Note # 2)		
KWGN 2 CO 770		
CFQC1 3 SK 1150		

Frank Merrill (continued) 26 tr 0539 unid ch 56 sse 27 tr 0330 W50BE 50 OH 450
 0543 WCHS 8 WV 486 (Mansfield LPTV)
 26 tr 0335 WTVE 51 PA 773 (WX map w/music)
 (CCI only) 0549 WQLN 54 PA 558
 0354 W44AG 44 PA 560 Youngstown 21,
 (Erie TBN) 27, & 33 525
 0403 W23AT 23 IL 170 0429 +WOAY 4 WV 535
 (Mokena VJN) 2300 WQLN 54 PA 558 (Previous by ms)
 0432 W48AA 48 WV 620 Cleveland,
 (Keyser WNPB-24) Detroit, etc.
 WDCA 20 DC 725 0440 WVVA 6 WV 553
 ("On top") 2343 WYMT 57 KY 459 (Under WRTV)
 WBNX 55 OH 473 27 tr 0000 CBLN 40 ON 508 0445 WBRA 15 VA 606
 0433 @CKC02 2 ON 572 0115 WTVT 33 OH 523 WSBN 47 VA 496
 (Previous by Es) 0208 ON 48, 59, & 61 WMSY 52 VA 547
 0437 WVAH 11 WV 484 0457 WKOI-43 on 68 ??
 0439 WUSA 9 DC 726 (Detroit Univision) 0507 W63AH 63 OH 375
 0443 W15AD 15 WV 650 (Rare) 0510 W33AR 33 IL 113 (Maplewood WPTD-16)
 (Wardensville WNPB-24) 0238 W59BP 59 OH 440 2010 Cleveland, Detroi,
 WNPB 24 WV 576 (Ashland CHA) & Columbus U's
 0454 CFPL 10 ON 512 0239 W56CA 56 OH 405 28 tr 0113 K40CC 40 IA 260
 0500 WGPT 36 MD 604 0114 K55FL 55 IA 320 (Delaware CHA)
 0505 WICU 12 PA 562 0240 W29AI 29 OH 485 (Spencer KMEG-14)
 0518 WOWK 13 WV 468 (Akron CHA) 0138 CBLN 40 ON 508
 0527 @WLYH 15 PA 744 (See Note # 6) 0150 WJFW 12 WI 367

Note # 1 - (0143, 7/13) Noted on KTTC-10 sign/off was a mention of K67CH, La Crosse, replacing W83AH. If you never logged a channel 83, you won't.

Note # 2 - (0253, 7/3) Noted with full vertical line-groupings test pattern ("multiburst"?") without calls. I used to occasionally see this from Toledo in the early 80's. Offset also matched the WTFDA station book.

Note # 3 - (1919, 7/11) This was a strange opening! There was ABSOLUTELY no fading whatsoever, and the MUF (between KDBC's snow free video and nonexistent audio) did not waver the least bit for at least 20 minutes. Why can one opening be like this and another opening be choppy?

Note # 4 - (1300, 7/12) This might help solve somebody's mystery. This was a Thursday and they had 3/4 color bars which said "Amable teleauditorio de canal 13. Partir a las 13:30 hrs. Continuaremos con nuestra programacion." This message was on a "crawl" at the bottom of the screen. They briefly superimposed calls at 1300.

Note # 5 - (2100, 7/17) I always believed that very short E skip required a stupendous E skip opening! Obviously this was one of those "cheap" openings - never even a sign of activity on channel 4. So, as long as I have "close unlogged stuff", I apparently need to keep alert during very ordinary E skip openings, as well as the July 8th type.

Note # 6 - (0247, 8/27) Noted AUDIO semi-ID on W29AI: "The greatest stars of all time are on WAI, Cleveland 29"

Ronald Purdue, Route #1, Box 224, Byron MN 55920

CDT

Equipment:

RCA 13" XL-100 color TV, Winegard CS-8200 antenna at 25', Channel Master 0064C preamplifier, Archer amplified video selector.

September 1990

1 tr 1803 KPTM 42 NE 263	1 tr 2101 KTIV 4 IA 218	6 tr 0654 KJMH 28 IA 240
2019 WQRF 39 IL 218	KGIN 27 IA 218	0658 WHSL 46 IL 400
2046 KMEG 14 IA 218	KDSM 17 IL 178	12 tr 0648 WDJT 58 WI 237
2055 KCAU 9 IA 218	6 tr 0650 KDNL 30 MO 400	0650 WJJA 49 WI 259

This month's tropo conditions were excellent for the first half while in the last half of those conditions were suddenly "burned off" by passages of several Canadian cold fronts.

Other news around here - I saw test patterns of KXLI-41 in St. Cloud on the 27th. Finally, KXLI and KXL, here in Rochester, returned to the air on the 29th at 1430 with their "TV Heaven" programming along with paid programming that I think no one is watching!

So, not much to report this month. I don't know when the next report will get to Western TV-DX. 73's and see you in 30.

Christopher W. Hanley, 1321 Beecher Avenue, Galesburg IL 61401

CDT

Equipment:

VHF antenna (unknown vintage) at approximately 30 feet. Tabletop Radio Shack UHF bow tie in the attic at approximately 15 feet. Kawasha 13" color set.

Hello again. Mid August to mid September brought me (again!) more TV-DX than I expected, often from unexpected distances and directions. After ten years at this hobby, I'll admit to being a novice and an enthusiast who can learn from practically everybody. DX'ing TV is, at times, hard work, but it is worth it to me. I hope I never lose the sense of fun that comes with it.

So here's what I got. I've upped my "no relogs under" distance to 280 km (174 miles) to reflect the longer distances I've gotten this season; that will eliminate all Chicago and St. Louis relogs except KNLC-24.

August 1990

24 tr 2245 W33AR 33 IL 113 (Rockford WCIU-26)	27 tr 0635 WCET 48 OH 334 (At last!)	September 1990
2309 KNLCT 24 MO 1858 WFYT 20 IN	1900 WTHR 13 IN 231	2 tr 2152 WIIB 63 IN 247
25 tr 2234 WKEF 22 OH 333 1910 WNDUT 16 IN	1929 WDRB 41(IN) 300	2153 WXIN 59 IN 231
2324 KBSI 23 MO 249 WSBT 22 IN 220	1930 WCLJ 42 IN 247	2201 WEIU 51 IL 155
2344 WTTKt 29 IN 2230 WTTKt 30 IN 240	2230 WTIU 30 IN 240	
26 tr 0006 KNLCT 24 MO 1935 WHNET 46 IN 2250 WTTKt 29 IN	1937 WIIB 63 IN 247	
0025 WNDU 16 IN 221 2010 WCIU 24 MO 190	1937 WNDU 16 IN 221	2339 WDRB 41(IN) 300
0030 WSBT 22 IN 220 28 tr 0534 WNDU 16 IN 221	1937 WSBT 22 IN	2340 WFIE 14(KY) 261
0106 WRGT 45 OH 333 0537 WSBT 22 IN 223 3 tr 0037 KNLC 24 MO 179	1937 WSBT 22 IN	2345 WLKY 32(IN) 300
0836 KPTM 42 NE 305 0545 WHME 46 IN 223	1937 WSBT 22 IN	0122 WEHT 25(KY) 261
0901 KHIN 36 IA 255 0547 @WSJV 28 IN 222	1937 WSBT 22 IN	0140 WHO 13 IA 178
0904 K33AA 33 IA 104 (Ottumwa KIIN-12) 0555 KMIZ 17 MO 190	1937 WSBT 22 IN	0147 unid channel 65
0910 KSPR 33 MO 292 (NOAA weather)	1937 WSBT 22 IN	(MDA Telethon - Evansville, IN, Morganfield, KY, Owensboro, KY phone numbers)
0930 WKGB 53 KY 334 29 tr 2219 WOI 5 IA 178	1937 WSBT 22 IN	
27 tr 0548 WTTK 29 IN 235 30 tr 0549 WTTK 29 IN 235	1937 WSBT 22 IN	
0550 WHMBt 40 IN 31 tr 0600 KPTM 42 NE 305	1937 WSBT 22 IN	
0555 WXIN 59 IN 231 0603 KTIN 21 IA 245	1937 WSBT 22 IN	

Thanks to Jerry Beaudin; his photo reprinted in a past VUD helped me identify KSPR-33. Thanks also for an unexpected visit from Marvin Shultz, who brought his huge album of station ID photos. And thanks to Jerry Lewis for putting his MDA Telethon on during a big siege of tropo. Last but not least, thanks to all the VUD editors for they work put in. 73's to all.

(Chris, I wonder if your channel 65 with Evansville, etc. phone numbers might be W65CD Paducah, Kentucky. That is a construction permit for a channel change by the local channel 54 LPTV which had been RFD-TV. Perhaps they have gone on the air and are translating one of the Evansville television stations. fm)

Mike Cherry, Box 631, Ganges BC V0S-1E0 (604) 537-5201

PDT

Equipment: See September 1990 Western TV-DX

August 1990 9 tr 2200+ OR 24, 32 strong (Strong)	17 tr 0750 @CBUT34 35 BC 65
28 tr 0922 KWCT 27 WA 185 still in strong	0754 CHAN9 21 BC 98
(Strong) 1047 KTVZ 21 OR 346 (Bremerton KIRO-7)	1043 K54AC 54 WA 95
September 1990 2220 15,24,32 s/free (Very rare!)	
1 Es 0830 KENW 3 NM 1467 2226 KAPP 35 WA 213 19 ms 2206 unid ch3 14 secs	
0857 KNMZt 2 NM 2227 KVEW 42 WA 279 20 tr 0537 WA 35,42, 25, 29	
0900 KOB 4 NM 1280 12 tr 0848 KNDU 23 WA 213 (Briefly)	
4 tr 2023 K3680 36 WA 70 (Loc. CHAN6 off) 0852 KNDU 25 WA 279 21 ms 0339 unid ch 2 5 secs	
(Deming KOMO-4) 2357 KNMT 24 OR 234 (3/4 color bars)	
(Snow free) 14 Es 0900 \$KTWS 3 CO 1150 24 tr 0619 @CBUT25 35 BC 87	
6 tr 0800 +KCKA 15 WA 161 16 ms 0515 unid ch 2 9 secs Es 1000 KSWK 3 KS 1350 tr 2114 KIMA 29 WA 213 (S/free-unusual)	0623 @CBUT6 14 BC 76

Locally, KBGE-33 Bellevue-Seattle is silent. It had been HSN.

Mike Cherry (continued) This years E skip season was better than last years. I'm still floored by my reception of KTBS-3 (1887 miles) and KIII-3 (2007 miles). I am eagerly waiting to see Doug Allen's next TV report. I think these signals may have been tropo to the Nebraska-Kansas-Colorado "uplink" for E skip at my QTH. Otherwise, these must be "cloud-to-cloud" or possibly ionospheric-ducting as Joop J. Prosee described in his excellent update on current propagation theories and research.

Temperature inversions on September 9, 10 and 17 brought fog and early-season tropo from various coastal locales, both north and south.

I've noticed high F2 MUF and 200+ solar flux one or two days in the last few weeks, but foreign TV frequencies (45+ MHz) don't seem affected yet. No aurora noted yet.

Finally, a couple of amateurs who are into VHF/UHF have moved to the island and I've met them recently and am putting the bug in their ears to try DX'ing TV & FM! We have been discussing the theoretical possibilities of moonbounce (EME) at the low end of the UHF TV dial using 7 foot parabolic reflectors and a phased 4 x 4 array. Has anyone in the club experimented with moonbounce at all? Is it theoretically possible (especially with varied time zones and having powerful enough transmitters on locally clear TV channels)? These amateurs seem to think that frequencies in the low part of the UHF band are at the ideal wavelengths for EME.

Lastly...a note to John Combs; your change to my geographical coordinates was correct. Thanks. Until next report.... 73's, Mike

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

Equipment:

1980 model 9" J.C. Penney b&w with Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

July 1990	11 Es 1300	KTWO	2 WY 1015	25 tr 2055	KADN	15 LA 380		
1 tr 2340	KPLC	7 LA 335	1511 WJMN	3 MI 1310	2158 KLT	18 LA 335		
2 tr 0352	KTRE	9 TX 260	WISC	3 WI 1060	2215 KTFH	49 TX 205		
0413	KNOE	8 LA 425	1525 WBAY	2 WI 1180	KFDM	6 TX 275		
Es 2057	KOTA	3 SD 1040	1541 KGAN	2 IA 960	2249 KLFY	10 LA 370		
3 tr 0054	KBMT	12 TX 280	2113 WMMT	3 MI 1160	2258 K3DB	33 TX 190		
0058	KLFY	10 LA 370	2126 WCIA	3 IL 930	(Houston LPTV)			
0106	KPLC	7 LA 335	2209 KREG	3 CO 850	2302 WVLA	33 LA 435		
0109	KFDM	6 TX 275	12 Es 0957	WBTV	3 NC 1085	2348 KTFH	9 LA 260	
4 Es 0959	KOTA	3 SD 1040	1059 KDLO	3 SD 1070	26 tr 0003	KFDM	6 TX 275	
6 Es 0950	WJBF	6 GA 1020	1100 WSIL	3 IL 790	0019 KLFY	10 LA 370		
7 Es 0829	WBTV	3 NC 1085	1101 WTWO	2 IN 925	0538 KLTS	24 LA 350		
	WFMY	2 NC 1170	1129 KXMA	2 ND 1215	KLTL	18 LA 335		
0830	WRAL	5 NC 1235	1132 KOTA	3 SD 1040	27 Es 0959	WPBT	2 FL 1145	
0959	WSAZ	3 WV 1120	13 Es 1159	KUSD	2 SD 940	1025 WESH	2 FL 1035	
	WTDN	2 OH 1075	2100 WSJK	2 TN 1005	1029 WEDU	3 FL 990		
1216	KDLO	3 SD 1070	2113 KDLH	3 MN 1245	1059 WSAV	3 GA 1035		
1228	WAVE	3 IN 950	2128 KDLO	3 SD 1070	1100 WRBL	3 GA 835		
1257	WSYX	6 OH 1140	2225 KOTA	3 SD 1040	28 Es 0818	WDTN	2 OH 1075	
1411	WLNS	6 MI 1205	14 Es 2100	KIDK	3 ID 1240	29 Es 1345	WBTV	3 NC 1085
8 Es 1029	WSIL	3 IL 790	18 Es 1630	WSJK	2 TN 1005	1349 WFMY	2 NC 1170	
1330	KMOH	6 AZ 1000	1755 WBTV	3 NC 1085	1527 WCTV	6 GA 875		
1558	KBME	3 ND 1190	19 Es 0559	WRCB	3 TN 865	1729 WEDU	3 FL 990	
1559	KUSD	2 SD 940	0859 WWAY	3 NC 1235	31 Es 1259	WSJK	2 TN 1005	
9 tr 0058	KBMT	12 TX 280	1259 CKVR	3 ON 1455	1345 WBTV	3 NC 1085		
Es 1222	YSR	2 El Salvador	1337 WSAZ	3 WV 1120	1444 WFMY	2 NC 1170		
1235	TGV	3 Guatemala	1744 KIMT	3 IA 1010	1608 WSAZ	3 WV 1120		
2259	KIDK	3 ID 1240	1859 KLNE	3 NE 755	1613 WKRN	2 TN 815		
11 Es 1059	WCBD	2 SC 1135	22 tr 0420	KTRE	9 TX 260	1615 WAVE	3 KY 950	
1129	WBTV	3 NC 1085	0425 KLT	7 TX 290	1629 WDTN	2 OH 1075		
1159	WSAZ	3 WV 1120	Es 1957	KGAN	2 IA 960	1701 KGAN	2 IA 960	
1259	KDLO	3 SD 1070	25 tr 2030	KPLC	7 LA 335	1725 KMTV	3 NE 830	

This is getting to be "old" by now. There was 144 MHz E skip into Florida, Georgia, and even Mississippi on July 29th.

Some of this UHF tropo is being caught with the 13" 1987 RCA color set as the transplanted Penney '76 UHF tuner goes into some self-oscillation much above channel 50 as well as suffering from poor image rejection and spurs on the lower end.

Any "bargain" Teknika tuners left out there? 73, Pat, WA5IYX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

CDT

Equipment:

1966 Zenith b&w tube receiver ch 14N22, modified Zenith 175-1962 detent tuner. Channel Master 1110 VHF antenna. Channel Master 7 foot UHF parabolic antenna with Winegard PA4975 preamplifier on a 40' tower.

August 1990	10 Es 1200	KKTO	2 NM 972	26 tr 0400	WZTV	17 TN 408	27 tr 2320	WPGH	53 PA 491
14 tr 2200	W62BU	62 IL 42	(Rockford WWT-35)	0440	WOIO	19 OH 401	2330	WOAC	67 OH 417
24 tr 2300	W65BK	65 IN 183	(Terre Haute TBN)	0442	CKCO	13 ON 461	28 tr 0045	WNEO	45 OH 426
25 tr 0130	W28AI	28 IL 217	(Salem religious)	0455	CFPL	10 ON 419		WAEO	49 OH 404
0200	W34AY	34 IL 124	(Champaign TBN)	0500	CHCH	11 ON 488		0100	WOIO 19 OH 401
0205	W47AZ	47 IN 214	(Indianapolis VJN)	0505	CBLN	40 ON 419		0105	WYMT 57 KY 449
0230	K58DH	58 MO 213	(St. Louis VJN)	0550	WOWK	13 WV 428		0300	K39AS 39 IA 181
0230	WPGH	53 PA 491	2305 WOAC 67 OH 417	0555	WFMJ	21 OH 450		(Marshalltown CHA)	0358 WVAH 11 WV 463
26 tr 0005	WNEO	45 OH 426	2348 KTFH 9 LA 260	0558	WNED	17 NY 537			
0008	WAEO	49 OH 404	2348 KTFH 9 LA 260	0600	WAKC	23 OH 404		September 1990	
0105	WYMT	57 KY 449	2348 KTFH 9 LA 260	0600	WNEO	45 OH 426	6 tr 0440	KSAX	42 MN 404
0250	WVAH	11 WV 463	2348 KTFH 9 LA 260	0600	WAED	49 OH 404	12 tr 0430	KSAX	42 MN 404
0350	WTAJ	10 PA 571	2348 KTFH 9 LA 260	0600	WYMT	57 KY 449	19 tr 2400 W45AJ 45 IL 52		
				0110	WOIO	19 OH 401		(Rockford CHA)	
				0208	WVAB	11 WV 463	21 tr 0040	WYMT	57 KY 449
				0420	WKPT	19 TN 508	27 tr 0420	W19BA	19 MI 209
				0445	WBRA	15 VA 583		(Grand Rapids TBN)	
				0447	WSBN	47 VA 483	29 tr 0510 K23CI 23 IA 158		
				0571	WMSY	52 VA 533		Ottumwa	KCCI-8

Had excellent tropo spanning August 24-28 to 600 miles. Plano, channel 30, is back on after testing one night in April. Also, a new channel 45 in Loves Park (Rockford fin). I received them six hours after sign on. There was an article concerning them in the local newspaper. Both are Channel America. Also logged many new close in translators and LPTV's. DX'ing is becoming very difficult in the UHF spectrum as it is becoming so cluttered here with translators and LPTV's.

CORRECTION: In the October 1990 Western TV-DX column, Mike Cherry's logging of KFOR on August 10 at 1959 should have been listed as 1615 miles, not 1670 miles. My mistake!

STATION BREAK

WTFDA
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

FOR SALE - Car cassette/radio, M.E.I. model CX 143E. Digital tuning, auto reverse, two track (can be wired to balance or fade, but not both) cassette hardly used, works fine (traded in old car, kept radio) \$25. Radio Shack rotor and outdoor antenna, plus 100' coax, lightning rod, connectors, etc. Been up less than year, rotor hardly used. Make offer.

Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785 (301) 773-3072

WANTED TO BUY - I am looking for copies of the following editions of the World Radio-TV Handbook: 1974, 1975, 1977, and 1978. Replies should state condition and price.

WANTED TO TRADE - Audio Airchecks of Louisville KY radio (either AM or FM). Have several airchecks, etc for trade.

Bob Walker - 30900 Stone Ridge Drive #7314 - Wixom MI 48393

WTFDAers: YOUR ad can appear in the VUD free of charge!

SOUTHERN FM DX

NOVEMBER 1990

SOUTHERN FM DX IS FOR REPORTS: FROM: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NH, NV, OK, SC, TN, TX, UT, VA & WV.

500+ MILE TROP PLUS ES FROM COLOMBIA AND CENTRAL AMERICA HIGHLIGHT THIS MONTH.

Doug Allen, W2CRS, P. O. Box 5646, Woodland Park, CO 80866

Equip'tl: Pioneer TX 9600(IF modified)&stacked Stereo Probe 9s at 25' (Stations under 400 miles not reported unless new or remarkable!)

9/1 tr

0700 KZKX	96.9 NE Seward, noisy	500	0740 WDDJ	96.9 KY Paducah, ad	
0701 KHNE	89.1 NE Hastings		10/1 tx		
0715 KWOW	94.1 NE Omaha	504	0042 KVEZ	93.7 KS Salina	400
0715 KEZO	92.3 NE Omaha	504	0043 KPKF	94.1 KS Kansas City, 94 country	535
0726 KNKY	97.7 NE Nebraska City, o/u KUVR		0044 KUUL	98.1 KS Kansas City, ad	
9/11 ms & tra			0046 KJCK	95.5 KS Junction City, "Power 95"	
0912 WDDJ	96.9 KY Paducah, ads, "97 FM"		0048 KNBR	99.7 MO Kansas City, ad 565	
0930 KNID	96.9 OH Enid		0051 KTRF	100.1 ? ID in noise	
9/19 ms & tr			0055-0200 TV DKed		
0400 WLNU	88.9 WI LaCrosse, ID, s/o, 15 sec. burst		0210 KTFK	106.9 KS Topeka, wx	490
0800-0900	western KS stations very strong		0235 KVEB	104.3 KS Great Bend, k, "Proud Country", KJAS was briefly silent, KS #55	
9/24 ms			0305 KTFK	103.3 OK Tulsa, "Fox 103", 550 briefly o/kLJS	
0800 KWHK	94.5 LA Shreveport, "KWH AM and FM Shreveport"				

My MO 99.3 CL turned out to be kCLR, not kLER as I speculated. Still wondering about 97.9 "K98 FM", and 105.9 "KICKS 106". Some strong openings into western KS, but everything over 300 miles was weak. MY VHF TV system is working well, but it's on a different tower and in a different room, so I can't DX FM and TV at the same time yet. 73.

Fat Dyer, WA5IYX, 5315 Silvertip Dr., San Antonio, TX, 78228-2744

7/4 Es

1000 KIZN	92.3 ID Boise
1006 KOFR	94.1 MT Butte
1016 KLZY	92.5 WY Powell
1050 KPAY	94.9 ID Pocatello
1051 KUUB	95.1 MT Bozeman
1058 KBXL	94.1 ID Caldwell
1108 KEIA	88.5 ND Belcourt
7/6 Es	
0915 WHLZ	92.5 SC Manning
0919 WLWI	92.3 AL Montgomery
0923 WILN	105.9 FL Panama City
0925 WYBB	98.1 SC Folly Beach
0926 WNFI	99.9 FL Palatka
0928 ITOI	108.9 AL Troy
0930 WKZR	102.3 GA Milledgeville
0933 WXRS	103.9 GA Gainsboro
0936 WPEZ	107.9 GA Macon
0937 WCGQ	107.3 GA Columbus
0939 WYAI	104.1 GA La Grange
0941 WBBA	104.3 GA Augusta
0943 WIJH	107.9 SC Hilton Head IS.
0945 WSYA	103.3 AL Montgomery
0949 WRKR	96.3 SC Aiken
0952 WXTG	96.9 SC Charleston
0957 WFKA	103.1 GA Augusta
1007 WSTA	106.1 AL Alexander City
1018 WTSH	107.1 GA Rockmart
1019 WKNU	106.3 AL Brewton
1031 WFAP	92.5 FL Panama City
1033 WTNT	94.9 FL Tallahassee
1035 WBCM	98.9 FL Tallahassee
1036 WAKA	92.3 FL Orlando
1040 WMEZ	94.1 FL Pensacola
1054 WBIL	95.9 AL Tuskegee
1059 WFCH	88.5 SC Charleston
2002 WVPN	88.5 WV Charleston

0805 WARR	92.3 NC Asheboro
0814 WPEI	97.9 NC Concord
0829 WFDD	88.5 NC Winston-Salem
0839 WMFM	93.9 GA Moultrie
0851 WAKB	104.9 GA Blackshear
0854 WHFX	103.3 GA Waycross
0855 WHHH	106.1 SC Hilton Head IS.
0856 WIJY	107.9 SC Hilton Head Is.
0858 WSSX	95.1 SC Charleston
0902 WZLZ	106.1 GA Toccoa
0906 WJCE	96.5 GA Savannah
0910 WLXH	95.9 GA Alma
0912 WQZY	95.9 GA Dublin
0915 ITOI	108.9 AL Troy
0919 WXTG	96.9 SC Charleston
0925 WFXE	104.9 GA Columbus
0926 WYAL	103.1 SC Surfside Beach
0929 WSSC	92.5 SC Greenville
0931 WIVK	107.7 TN Knoxville
0933 WNDA	95.1 AL Huntsville
0934 WQQB	93.3 TN Tullahoma
0940 WLKL	92.3 VA Roanoke
WTFM	98.5 TN Kingsport
0953 WJIE	88.5 KY Okolona
1003 WTIG	88.3 FL Starke
1011 WVOH	93.5 GA Hazlehurst
1014 WXGT	92.3 OH Columbus
1024 WQJK	95.3 OH Xenia
1025 WRRM	98.5 OH Cincinnati
1027 WHLZ	92.5 SC Manning
1030 WINN	106.1 IN North Vernon
1044 WCDW	103.1 IN Covington
1046 WLBH	96.9 NC Goldsboro
1049 WKXK	104.1 IL Jerseyville
1050 WNSN	101.5 IN South Bend
cont....	

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 14th

SOUTHERN FM DX

7/7 Es

1051 WIL	92.3 MO St. Louis
1056 WDZQ	95.1 IL Decatur
1058 WVVX	103.1 IL Highland Park
1100 WYCA	92.3 IN Hammond
1105 WKX	97.9 GA Fort Valley
1106 WLWI	92.3 AL Montgomery
1112 WZNY	105.7 GA Augusta
WXRT	93.1 IL Chicago
1105 WKX	97.9 GA Fort Valley
1106 WLWI	92.3 AL Montgomery
1112 WZNY	105.7 GA Augusta
1119 WBWI	92.5 WI West Bend
1122 WAFL	105.7 WI Appleton
1123 WJZQ	95.1 WI Kenosha
1124 WAAG	94.9 IL Galesburg
1127 WIZM	93.3 WI La Crosse
1128 WTXF	94.1 WI Watertown
1129 KOEL	92.3 IA Oelwien
1130 WXXQ	98.5 IL Freeport
1131 WWIB	103.7 WI Ladysmith
1132 KLSS	106.1 IA Mason City
1135 WMT	96.5 IA Cedar Rapids
1136 WFPL	103.9 GA Blue Ridge
1137 WIAL	94.1 WI Eau Claire
1138 WSPT	97.9 WI Stevens Point
1140 WTQR	104.1 NC Winston-Salem
1146 KEEZ	99.1 MN Mankato
1149 WXIL	95.1 WV Parkersburg
1152 KMX	94.9 NM Litchfield
1153 WPAY	104.1 OH Portsmouth
1157 WFTM	95.9 KY Maysville
1200 WHBC	94.1 OH Canton
1200 WBVE	96.5 OH Hamilton
1203 WARW	93.3 OH Cincinnati
1210 WADD	96.5 ND Bismarck
1221 CMNR	93.9 ON Windsor
1222 KQAA	94.9 SD Aberdeen
1223 KBYZ	96.5 ND Bismarck
1225 KQAY	105.9 NE Kearney
1230 WBTU	93.3 IN Kendallville
1234 WNNW	98.5 MI Coldwater
1235 WIBM	94.1 MI Jackson
1237 WLKM	95.9 MI Three Rivers
1241 WQLR	106.5 MI Kalamazoo
1243 WOOD	105.7 MI Grand Rapids
1250 WJTW	93.5 IL Joliet
1252 WLHT	95.7 MI Grand Rapids
1253 WMIL	106.1 WI Waukesha
1255 WHQ	105.9 MI Charlevoix
1259 WHEY	93.5 IN Lafayette
1305 WYFE	88.1 IN Elkhart
1306 KNGO	98.7 IA Centerville
1309 KMK	93.9 SD Rapid City
1310 WVIC	94.9 MI East Lansing
1312 WSDN	96.1 SD Aberdeen
1315 WLFR	103.3 MI Br'ttle Crid
1322 WLAV	96.9 MI Grand Rapids
1324 WEUS	99.9 IL Kankakee
1325 WDER	92.5 IL De Kalb
1326 WCBR	92.7 IL Arlington Hts.
1327 WQXK	105.1 OH Salem
1338 KSQL	95.1 SD Deadwood
1339 WQAL	104.1 OH Toledo
1341 WQLX	102.3 OH Galion
1342 WCRF	103.3 OH Cleveland
1350 WJLH	98.5 WI Green Bay
1353 WPTS	92.3 IN Bloomington
1354 WVKF	92.5 OH Toledo
1357 WFTI	107.9 IN Indianapolis
1359 WQJC	99.3 IN Van Buren

cont....

Dyer, cont.

7/7 Es

1430 WUPS	98.5 MI Houghton Lake
1446 WTBX	93.9 MN Hibbing

7/8 Es

1336 WKRR	92.3 NC Asheboro
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1337 WZZU	93.9 NC Burlington
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1339 WYST	92.3 MD Baltimore
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1358 WAYS	93.9 DC Washington
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1418 KKFR	92.3 AZ Glendale
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1419 KOY	95.5 AZ Phoenix
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1421 KKLK	98.7 AZ Phoenix
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1457 WVPN	88.5 WV Charleston
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1529 KESD	99.3 SD Brookings
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7/9 tr	
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1222 XHSRO	92.5 NL Monterrey
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Es	
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1251 TGRT	88.8 Gua Guatemala City
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1253 TG--	88.5 Gua
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YSR-	89.0 ELS San Salvador
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1300 TGFP-	88.1 Gua Guatemala City
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1315 TG--	96.6 Gua Guatemala City
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2009 WAIR	92.5 MI Atlanta
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2029 WJZQ	95.1 WI Kenosha
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2033 KCEL	92.3 IA Oelwien
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2038 KRPN	107.9 UT Roy
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2039 KEZJ	95.7 ID Twin Falls
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2041 KFTZ	103.1 ID Idaho Falls
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2048 KLCY	94.1 UT Salt Lake City
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2049 KROK	93.5 CO Leadville
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2051 KLZY	92.5 WY Powell
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2055 KJYS	92.3 CO Grand Junction
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2058 KLZX	93.3 UT Salt Lake City
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2059 KHZT	94.9 UT Provo
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2100 KZJH	95.7 WY Jackson
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2109 KBFI	105.9 CO Denver
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2112 KTAK	97.9 WY Cody
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2127 KLWD	96.5 WY Sheridan
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2133 AMTS	2.7 CO Glenwood Springs
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2138 KAHL	96.9 WY Gillette
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2143 KZBQ	93.7 ID Pocatello
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2149 KGS	95.1 WY Rock Springs
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tr	
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2201 KLMN	104.9 TX Llano
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7/11 Es	
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1126 WXLK	92.3 VA Roanoke
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1135 WJJD	97.7 VA Grundy
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1148 WVPN	88.5 WV Charleston
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1153 KEYA	88.5 ND Belcourt
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1226 KLCY	94.1 UT Salt Lake City
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1228 KZHT	94.9 UT Provo
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1246 KDL	95.1 CO Delta
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1250 KRC	93.5 SD Sioux Falls
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1253 KTAK	93.9 WY Riverton
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1314 CIMX	88.7 ON Windsor
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1318 WBTU	93.3 IN Kendallville
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1456 WGVU	88.5 MI Allendale
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1529 WIAA	88.7 MI Interlochen
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1600 WCOZ	93.5 WI New London
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1616 WJPD	92.3 MI Ishpeming
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1628 WOLX	94.9 WI Baraboo
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1632 WHWL	95.7 MI Marquette
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2108 CKMR	93.9 ON Windsor
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7/12 tr	
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1134 KNFM	92.3 TX Midland
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Es	
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1211 KMKK	93.9 SD Rapid City
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1220 KMCN	92.5 MT Miles City
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1340 KQJD	94.5 ND Bismarck
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1342 KBYZ	96.5 ND Bismarck
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1342 KGFX	92.7 SD Pierre
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1444 KDNZ	96.5 MT Glendive, cont...
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SOUTHERN FM DX

7/12 Es
 1452 KSQY 95.1 SD Deadwood
 1459 KCGM 95.7 MT Scobey
 1500 KGCH 93.1 MT Sidney
 1508 KLAN 93.5 MT Glasgow
 1528 KYZZ 92.7 MT Wolf Point
 7/13 Es
 0756 TG-- 88.5 Gua
 2049 WZTR 95.7 WI Milwaukee
 2050 WLUP 97.9 IL Chicago
 2052 WFTX 94.1 WI Watertown
 2141 KWKQ 92.5 MN Warroad
 2143 KQWB 98.7 MN Moorhead
 2207 CBWV 97.9 MB Brandon
 2216 KEYA 88.5 ND Belcourt
 2232 KMMK 92.5 MT Miles City
 7/18 Es
 1640 WIKQ 94.9 TN Greenville
 1644 WBGN 93.5 AL Evergreen
 1646 WBGM 98.9 FL Tallahassee
 1552 WKQL 96.9 FL Jacksonville
 1655 WOCL 105.9 FL De Land
 1657 WSSP 104.1 FL Cocoa Beach
 1659 WMIM 93.9 GA Moultrie
 1700 WHFX 103.3 GA Waycross
 1708 WLJI 106.1 GA Toccoa
 1712 WZZG 95.1 NC Charlotte
 1713 WSPA 98.9 SC Spartanburg
 1730 WESC 92.5 SC Greenville
 1734 WSOC 103.7 NC Charlotte
 1736 WKSI 98.7 NC Greensboro
 1737 WBT 107.9 NC Charlotte
 1738 WKRR 92.3 NC Asheboro
 1741 WWUF 97.7 GA Waycross
 1743 WQFW 95.7 GA Valdosta
 1759 WLFI 88.3 GA Jesup
 7/19 Es
 0759 WMCU 89.7 FL Miami
 0820 WUAW 88.3 NC Erwin
 WNNH 92.3 NC Nags Head
 0824 WXLR 92.3 VA Roanoke
 0900 WMQX 93.1 NC Winston-Salem
 0906 WAMU 88.5 DC Washington
 0920 WRKG 101.5 IN Columbus
 0922 WKSI 98.7 NC Greensboro
 0925 WSIP 98.9 KY Paintsville
 0927 WXIL 95.1 WV Parkersburg
 0934 WTCH 103.3 WV Huntington
 0937 WOMC 104.3 MI Detroit
 0939 WXCC 96.5 WV Williamson
 0948 WVIC 94.9 MI East Lansing
 0951 WWNK 94.1 OH Cincinnati
 0952 WRDD 96.5 OH Akron
 0954 WNCI 97.9 OH Columbus
 0955 WFMF 98.7 IL Chicago
 0956 WBBY 103.9 OH Westerville
 0957 WRKA 103.1 KY St. Matthews
 1004 WRRR 93.9 WV St. Marys
 1008 WIRK 99.1 MI Iron River
 1028 WOLX 94.9 WI Baraboo
 1029 WLRC 95.7 OH Piqua
 1030 WLBC 104.1 IN Muncie
 1032 WKHQ 105.9 MI Charlevoix
 1035 WVKI 92.5 OH Toledo
 1039 WMJC 103.9 IN Indianapolis
 1040 WJZZ 105.9 MI Detroit
 1044 WLST 95.1 WI Marinette
 1049 WQLR 106.5 MI Kalamazoo
 1051 WGRZ 107.9 MI Flint
 1052 WAIR 92.5 MI Atlanta
 1054 WIBM 94.1 MI Jackson
 cont...

Dyer, cont.

7/19 Es
 1059 WLQR 101.5 OH Toledo
 WXFH 99.3 IL Mt. Zion
 1102 WLTO 103.9 MI Harbor Springs
 1105 WOMA 96.5 WI Algoma
 1115 WMLL 106.1 WI Waukesha
 1117 WNGV 103.9 WI Oshkosh
 1123 WJFD 92.3 MI Ishpeming
 1129 WJZQ 95.1 WI Kenosha
 1135 KMXK 94.9 MN Litchfield
 1136 WKLH 96.5 WI Milwaukee
 1137 WTBX 93.9 MN Hibbing
 1138 WLRT 95.7 MI Grand Rapids
 1154 KESD 88.3 SD Brookings
 1200 KWKQ 92.5 MN Warroad
 1204 WLXK 98.9 NY Rochester
 1209 KKNK 92.9 SD Rapid City
 1214 KMMK 92.5 MT Miles City
 1222 CJBX 92.7 ON London
 1237 KSGY 95.1 SD Deadwood
 1238 KDZN 9.65 MT Glendive
 1252 WMXK 2.3 MI Detroit
 1253 CIXM 88.7 CN Windsor
 1759 KOEL 92.3 IA Oelwein
 1802 KTUF 93.5 MO Kirkville
 1803 KCCK 88.3 IA Cedar Rapids
 7/25 tr
 0821 XHJD 98.9 NL Monterrey
 0847 X--- 93.5 TAM Matamoros
 2059 WCIA 92.3 LA Laplace
 2225 KIQC 106.1 TX Orange
 2228 WYNK 101.5 LA Baton Rouge
 2241 KYKS 105.1 TX Lufkin
 2259 KTXB 89.7 TX Beaumont
 2335 KHUN 101.7 TX Huntsville
 2353 KNUE 101.5 TX Tyler
 7/26 tr
 0005 KTQR 100.9 LA Sulphur
 0021 KYKR 93.3 TX Port Arthur
 0534 KREP 92.3 TX Marshall
 0535 KUEZ 99.3 TX Lufkin
 0727 KTUX 98.9 TX Carthage
 0731 KXAL 103.1 TX Pittsburgh
 7/27 Es
 0959 WKPK 88.5 FL Sunrise
 WCMQ 92.3 FL Hialeah
 1004 WRMF 97.9 FL Palm Beach
 1007 WJIS 88.1 FL Bradenton
 1013 WYUU 92.5 FL Safety Harbor
 1015 WYGL 93.5 FL Vero Beach
 1021 WFIT 89.5 FL Melbourne
 tr
 1052 KYKR 93.3 TX Port Arthur
 7/28 Es
 0836 WXGT 92.3 OH Columbus
 ms
 0859 WKYN 89.7 TN Chattanooga
 7/29 Es
 1229 WJFR 88.7 FL Jacksonville
 1403 WMEV 93.9 VA Marion
 1414 WRAS 88.5 GA Atlanta
 1436 WZAZ 92.7 FL Green Cove Springs
 1441 WHJX 101.5 GA Brunswick
 1448 WAIA 93.3 GA St. Marys
 1449 WKQL 96.9 FL Jacksonville
 1458 WMTM 93.9 GA Moultrie
 1500 WOKF 92.5 GA Folkston
 1512 WRJM 93.5 AL Geneva
 1515 WQIK 99.1 FL Jacksonville
 1519 WNFI 99.9 FL Palatka
 cont...

NOVEMBER 1990

SOUTHERN FM DX

7/29 Es
 1524 WFSY 98.5 FL Panama City
 1528 WQFW 95.7 GA Valdosta
 1530 WTUF 106.3 GA Boston
 1538 WGCO 98.3 GA Jesup
 1540 WEBK 93.1 GA Blakely
 1541 WTNT 94.9 FL Tallahassee
 1546 GE 109.0 FL Greenville
 1648 WWKA 92.3 FL Daytona Beach
 1551 WZLS 96.7 GA Baldosta
 1554 WOCL 105.9 FL De Land
 1557 WQW 107.3 FL Pensacola
 1559 WPFM 107.9 FL Panama City
 1602 WJYF 95.3 GA Nashville
 1606 WMMZ 93.7 FL Ocala
 1618 WIOI 100.7 GA Brunswick
 1659 WSSP 104.1 FL Cocoa Beach
 WTRS 102.3 FL Dunnellon
 1712 WUSF 89.7 FL Tampa
 1715 WYUU 92.5 FL Safety Harbor
 Equipt.: TM-1001 tuner with two 150-kHz IF filters in use, Archer 6-e FM antenna at 20' with rotor. July 29 MUF hit 144 MHz with skip there as short as Mississippi.

Dyer, cont.

7/29 Es
 1724 WNLT 95.7 FL Clearwater
 1736 WBGF 93.5 FL Belle Glade
 1737 WLVE 93.9 FL Miami Beach
 1742 WRMF 97.9 FL Palm Beach
 1743 WCMQ 92.3 FL Hialeah
 1745 WMCU 89.7 FL Miami
 1747 WZTA 94.9 FL Miami Beach
 1754 WXDJ 95.7 FL Homestead
 1757 WLRN 91.3 FL Miami
 1808 WEOW 92.5 FL Key West
 7/30 Es
 1630 TG-- 88.5 Gua
 1653 TGRT 88.8 Gua Guatemala City
 1654 TGFP 88.1 Gua Guatemala City
 1708 TG-- 91.9 Gua
 7/31 Es
 1437 WVPN 88.5 WV Charleston
 1527 WKEZ 94.1 VA Yorktown
 1542 WPVR 94.9 VA Roanoke
 1552 WAMU 88.5 DC Washington

NOVEMBER 1990

Gus Mancuso, 5615 Inwood St., Hyattsville, MD 20985

Bandscan from Emporia, VA 9/19 to 9/21. Longest catch--WWSN 107.7 OH Dayton. Total 158. (2nd best scan ever) Did not make the anticipated trip to South Hill, VA due to illness. Also scanned from New Bern, NC. Got 112 stations (too many 100kw local + semi locals). Stayed 2 nights in each spot. Went to convention AM not a dirty word. Ohio from Emporia was fluky. All others were from DC to SC. Got CA, also from New Bern. South Hill looking better & better--WVRS 107.3, WLQ 98.3, WVST 91.3 off air. WPGT 90.1 signs off 7 pm and WSHV 105.5 at 11 pm leaves only 12 stations within 50 miles. Several other educats 50-75 mi. away not on air.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74075

10/5 tr
 0942 Houston, TX in 460
 0943 KVNE 89.5 TX Tyler 290
 0944 KDXE 95.9 TX Sulphur Springs
 0948 KJZY 99.1 TX Denton 205
 1000 KWRW 97.7 TX Rusk
 1010 KDAQ 89.9 LA Shreveport 320
 1014 KBHT 93.5 TX Crockett, ads
 1016 WCKW 92.3 LA Laplace, classic r 570
 1020 KKBO 92.9 TX Pasadena, ad
 1030 KIVY 92.7 TX Crockett
 1034 KKBI 106.3 OK Broken Bow
 1043 KITA 95.5 OK Hugo, calls, "Red River country", ex 95.3
 1049 KISX 107.3 TX Whitehouse, Kiss 107"
 1054 KZMZ 96.9 LA Alexandria, "Power 96.9" 430

Christopher S. Dunne, Box 533, 21500 Johnson St., Pembroke Pines, FL 33029

Equipment: GE Superadio II mod. w/ 150 filters, Radio Shack 6-element FM antenna, Soundesign stereo

D	F	E	T
X	I	S	A

It was a veritable party on the morning of Sep 27 with a strong E opening to Central and South America. Not knowing enough Spanish, I employed help on some stations for ID, although a couple were easy to ID. I also relied on some old and new FM lists. All stations were logged 9/27/90 between 0800 & 1230 (yes, 4½ hours!), all Es & SS language except the last one (Tr). Enough gab - let's get to it! Muchas gracias to: the Lord for Es/Tr; Jeff White (non-member) for some of the IDs; and also mucho thanx to Mike Dorner and all the collaborators of the WFTDA book ONDAS FM for some callsigns; + thanx to the broadcasting organizations who provided me with station lists.

Call	Freq.	Location, details	Miles	HOH27?	90.9 PN (possibly) Chitre, RPC Radio (JW, OF) 1120
cu	88.1	GT Guatemala City, b (ee), R. Fabuesso- tero? (OF)	1050	unid	91.5 CR? "Musica Fundacion" (JW)
TGRTt	88.8 GT	Guat. City, n, fe- male voice (OF)	1050	cu	91.7 PN Panama City? "La Voz" (JW) 1120
HJCF	89.1 CL	Barranquilla, Cari- be Estereo/CARACOL	1100	HJOJ	92.1 CL Barranquilla, Olimpico Estereo 1100
HJLW	90.5 CL	Cartagena, mention of Cartagena, 860w	1100	TIHB	94.3 CR San Jose, Radio Reloj (JW, OF)(ee) 1100
				CONT....	

Call	Freq.	Location, details	Miles
HLRP	94.7 HO	Tegucigalpa (100w) or Olanchito (1000 w), R. América	916
cu	95.9 GT	Guat. City, R. Ranchera	1050
unid	96.1 ES	ment. El Salvador	
unid	96.3 CL	ment. Cali, no Cali @ 96.3	
HRUP4t	96.7 HO	San Pedro Sula, ment. "San Pedro",	

Most mileages are rough guesstimates. ABBREVIATIONS: (ee) = DX en estereo. OF=ONDAS. (JW) = //Jeff White or IDed by him. R. = Radio. GT = Guatemala. CL = Colombia. CR = Costa Rica. PN = Panama. HO = Honduras. ES = El Salvador. MX = Mexico. cu = call unknown.

This is DX I'd been waiting for for a long, long time. As they say in these countries, adios amigos! Setenta y tres

Matt Sittel, PO Box 21421, Raleigh, NC 27607

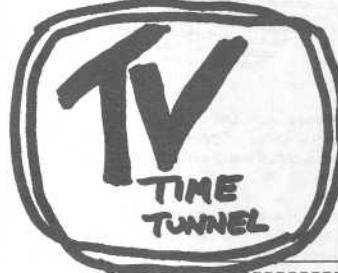
Equipment: Yamaha TX-900U modified tuner, rabbit ears, Radio Shack FM amplifier

9/1 tr
 0750 WTCB 106.7 SC Orangeburg, "B 106" 201
 0751 WJFK 106.7 VA Manassas, calls 217
 0753 WRQX 107.3 DC Washington, Mix107.3" 236
 0759 WFSL 107.9 MD Annapolis, calls, g 253
 0801 WZCL 105.3 VA Norfolk, "The Eagle", k156
 0804 WYAK 103.1 SC Surfside Beach, "Y103" 156
 0805 WMNA 106.3 VA Gretna, calls 87
 0807 WRXL 102.1 VA Richmond, "XL 102" 142
 0821 WFLO 93.3 VA Fredericksburg, calls 187
 0824 WHUR 96.3 DC Washington-FM #200- 236
 0826 WCDX 92.7 VA Mechanicsville 150
 0827 WHLZ 92.5 SC Manning, over WYFL 168
 0829 WGTS 91.9 MD Takoma Park, g 240
 0847 WDJY 100.3 DC Washington 236
 0856 WNAA 90.1 NC Greensboro, "The One" 65
 0901 WETA 90.9 DC Washington, ID 236
 0905 WMGS 103.5 DC Washington, over WRCQ 236
 0938 WCXR 105.9 VA Woodbridge, calls 213
 0947 WASH 97.1 DC Washington, calls 236
 0950 WWIN 95.9 MD Glen Burnie, calls 260
 -thanks to Greg Coniglio for ID'ing!
 0954 WZZG 95.1 NC Charlotte, over WRNS 127
 9/5 tr
 0826 WDBA 107.3 PA Du Bois, local ad 368
 0829 WTUA 105.9 SC St. Stephen, "Power106" 179
 0852 WCXR 105.9 VA Woodbridge, calls 213
 9/6 tr
 0753 WJYO 107.7 FL Mt. Dora, "Magic107.7" 513
 0809 WBGG 98.3 NC Murfreesboro, ad 101
 0821 WTUA 105.9 SC St. Stephen, calls?, s 179
 0825 WHTK 99.7 SC Port Royal, calls 259
 9/10 tr
 0829 WSVH 91.1 GA Savannah, "FM 91" 298
 0830 WHTK 99.7 SC Port Royal, calls 259
 9/11 tr
 0837 WFLO 95.7 VA Farmville, over WKML 106
 0839 WVOD 99.1 NC Manteo, "VOD" 171
 0846 WXKL 92.3 VA Roanoke, "K 92" 124
 0858 WCDX 92.7 VA Mechanicsville 150
 0859 WBBC 93.5 VA Blackstone, k, ID 99
 9/12 tr
 0759 WESM 91.3 MD Princess Anne, ID 238
 0759 WRJA 88.1 SC Sumter, WKNC empty 155
 0807 WHTK 99.7 SC Port Royal, calls 259
 9/19 tr
 0826 WWDM 101.3 SC Sumter, "The Big DM" 155
 0831 WSPA 98.9 SC Spartanburg 192
 0836 WGH 97.3 VA Newport News, k 153
 9/20 tr
 0823 WSHV 105.5 VA South Hill 74
 9/25 tr
 0831 WFOG 92.9 VA Suffolk, calls 136
 9/26 tr
 0824 WTUA 105.9 SC St. Stephen, local ad 179
 9/28 tr
 0832 WWHO 90.3 VA Norfolk, new freq. 156
 0835 WJYJ 90.5 VA Fredericksburg 187
 9/29 tr
 0840 WPTM 102.5 NC Roanoke Rapids, calls 76
 0902 WFLO 93.3 VA Fredericksburg 187
 0911 WCXR 105.9 VA Woodbridge, calls 213
 0918 WJQI 94.9 VA Virginia Beach 169

FM DX in September started out on a very high note with a fantastic opening into the DC metro area. Most of the DC stations were in stereo, with WETA reading higher on the signal meter than most of my locals!!! Then

came the strange loggings on the 5th and 6th. They were in all by themselves!! PA and FL and essentially nothing else in! Conditions worsened and the rest of the month was poor, with some improvements noted during the last couple of days of the month, although most of the distant tropo being confined to UHF TV. Hopefully October will be a great month for classic fall tropo for all of us! 73s Matt.

Writer's comments: In the annals of tv license grants, this may be one of the strangest ever. After almost a year of research there are still unanswered questions, and this article contains conjecture as to probable answers. In the event that any VUD reader can correct possible inaccuracies, please write me at the above address. It is the intent of this column to present historical fact; however in this case that was not always possible. Many thanks to VUD member Fred McCormack for his research assistance. Thanks also to retired WDAY-tv General Manager Summer Rasmussen, current WDAY-tv President Bill Marcil, KTHI-tv Chief Engineer Roger Johnson, and retired KXJB-tv Chief Engineer Lloyd Ericson.



Submitted by Tom Bryant
 849 Todd Preis Dr.
 Nashville, TN 37221

FARGO'S CHANNEL 11 --- (the mysterious origin)

THE SEEDS ARE PLANTED: The bizarre beginnings of Channel 11 in Fargo, ND rank with the conception of 'Rosemary's Baby' or the creation of the Frankenstein monster! The pieces of the puzzle are complex, as are the twists and turns of the story as it unfolds.

BUILDING BLOCKS: It is necessary to establish that top-level executives of both WDAY-tv (6) and KXJB-tv (4) were involved in the formation of the new station. WDAY-tv became the first station in the Red River Valley on June 1, 1953. Controlling interest of the channel 6 operation was in the hands of E.C. Reinecke; and operations and other ownership were intertwined with WDAY radio and the city's only daily newspaper "The Fargo Forum". Just over a year later, KXJB-tv [4] (licensed to Valley City but covering Fargo) went on the air under the guidance of John Boler, President of the North Dakota Broadcasting Company.

MORE CORPORATE HISTORY: NDBC was a shareholder group which also owned and operated KCJB-tv (13) in Minot plus AM radio stations in Minot and Jamestown, ND. The company also had [or was obtaining] construction permits for new tv stations in Bismarck, ND and Aberdeen, SD. Although John Boler held controlling interest in NDBC, the regional network also embraced independently owned KOIX-tv (2) in Dickinson, ND; and saw the spinoff of the Minot and Bismarck tv stations to Boler colleagues.

APPLICATIONS

Fargo, N. D.—Martin Kratter tr/s for Fargo Telecasting Co., vhf ch. 11 (196-204 mc); ERP 1.6 kw vis. 0.82 kw aur.; ant. height above average terrain 241 ft, above ground 250 ft. Estimated construction cost \$57,333, first year operating cost \$113,580, revenue \$130,000. P. O. address 521 Fifth Ave., New York 17, N. Y. Studio location to be determined. Trans. location 12th St., 2½ mi. W. of city limits. Geographic coordinates 46° 45' 25" N. Lat., 96° 51' 0" W. Long. Trans. Gates, P. O. address 521 Fifth Ave., New York 17, N. Y. Studio location 12th St., 2½ mi. W. of city limits. Geographic coordinates 46° 45' 25" N. Lat., 96° 35' 37" W. Long. Trans. Dumont, P. O. address 521 Fifth Ave., New York 17, N. Y. Studio location 12th St., 2½ mi. W. of city limits. Geographic coordinates 46° 45' 25" N. Lat., 96° 35' 37" W. Long. Trans. Bernard Koteen, Washington, D. C. Consulting engineer Dawkins Espy, Los Angeles. Mr. Kratter is N. Y. real estate investor and office building syndicate operator. Announced Jan. 8.

APPLICATION

Fargo, N. D.—North Dakota Bctg. Co., vhf ch. 11 (196-204 mc); ERP 29.05 kw vis. 14.55 kw aur.; ant. height above average terrain 392 ft, above ground 416 ft. Estimated construction cost \$33,450, first year operating cost \$96,000, revenue \$120,000. P. O. address 4000 W. Main St., Fargo. Studio location Fargo. Trans. location Clay County, Minn. Geographic coordinates 46° 45' 25" N. Lat., 96° 35' 37" W. Long. Trans. Dumont, ant. RCA. Legal counsel Bernard Koteen, Washington, D. C. Consulting engineer Lloyd R. Amoo, Valley City, N. D. North Dakota is licensee of KCJB-AM-TV Minot, KXJB-TV Valley City, KBMB-TV Bismarck and KSBJ Jamestown, all N. D. Principal stockholders are John Boler and E. C. Reineke and wife.

BROADCASTING 01/14/57

BROADCASTING 07/01/57

[CONTINUES NEXT MONTH...Lots of digging uncovers little pay dirt!]

There are a lot of experimenters who scoff at Radio Shack's antenna products. "Archer" brand name has never rated high among electronic enthusiasts...and usually for good reasons. As an installer I can tell you their stuff generally is not as well-built as the major antenna brands (their UHF antenna line contains some excellent exceptions to this rule—their CR yagis are used with good results here in northern New York). What you notice right away about their VHF and "combo" models is they generally use thinner aluminum stock and cheaper plastic insulators. But with Radio Shack antenna products, certain things should be kept in mind. For instance, they are marketed by the world's largest multi-national electronics chain store, and aimed at the "do-it-yourself" crowd—most other antenna brands are built to please professional antenna

installers; your professionals who also sell them because they know what does work and does not work. I think Radio Shack antennas often are designed with shipping considerations placed ahead of performance specs, with the main objective of getting them into and out of their hundreds of stores as quickly and efficiently as possible, while maintaining profitability.

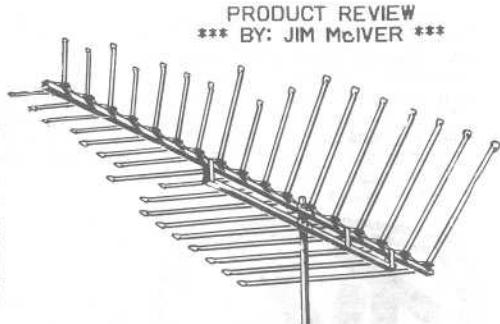
But there are some Archer antennas that might be considered by TV DXers on a budget who may be away from their home systems, either as "dorm DXers" or on vacation or on a DX-pedition. They may not be quite in the same league with your Channel Master, your Winegard or your General Instrument, but they tend to be far more "transportable" and much, much cheaper. Then there's the one big advantage Radio Shack enjoys over most other sources of antenna equipment and accessories: they are as close as your local Shopping Mall. Archer model 1654 "V-185"—their best VHF-only model—normally sells for about \$60, roughly around half of what the best VHF-only antennas (for example, Channel Master's high end Crossfire or Winegard's biggest Chromestar) go for at wholesale. The V-185 is often down to around \$50 when they have one of their seasonal promotional sales. At one of their "as-is, where-is" sales they might be even a few bucks less if you shop carefully.

A (non-DXer) friend installed one of these VHF-only models as a "back-up" (together with a coaxial A/B switch) for his cable-TV service, which seems to go down for a day every time it rains. (Want something more reliable than cable? The answer is TVRO.) He at least wanted to be able to watch his local (ch 7) and semi-locals (mostly Canadians from Kingston, Ont., and we can get some Syracuse NY) when he loses the cable feed. Poor devil even bought a Radio Shack rotor and aluminum mast sections, neither of which I could ever recommend. He had wanted to buy one of what we call their "All-channel Football Season specials," the promotional piece of junk that RS hauls out every year (it looks like it could be out-performed by four plastic coat hangers in series). I'm glad he bought the V-185. Much to my own surprise, the antenna does a pretty fair job on the channel 2 - 13 range.

Nothing new or different about the basic design of this antenna. It's a pretty simple antenna concept, based on a variation of the log-periodic (LPDA) principle. The V-185 log antenna design is a driven-element array consisting of seventeen sets of dipole elements (usually, the more elements, the more gain—if proper boom length is observed) fed in parallel using "criss-cross" (transposed) feed line. Each set of dipoles is designed to be electrically resonant to the wavelengths of a portion of the 54 to 108 and 174 to 216 MHz ranges; in other words, TV channels 2 - 6 and the FM broadcast range, and TV channels 7 - 13. This antenna is entirely composed of driven elements—no directors or reflectors as would be found on the best high-performance wide band VHF antennas. The variation is the multi-mode "vee" design, which was first widely used by several manufacturers in the late 60's. Most larger manufacturers of the time, such as Jerrold, RMS, JFD, Antenna Craft, eventually even Channel Master, offered multimode vee logs—this design had the flat frequency response required for reliable color subcarrier reception, pretty important in the new color TVs in that era.

I had a chance to get a quick look at this antenna in operation here. As expected, the forward gain, nulls, and front-to-back performance were nowhere near the equal of, say, a Channel Master. Also this antenna is about 13-and-a-half-foot long, which is a tad on the short side for what the optimum for this design should be. But the antenna did a surprisingly good job, especially on high band (ch 7 - 13) range. While the nulls were poor to practically non-existent and front-to-back performance is very bad (true of all vee LPDA types) forward gain on high band was decent, all things being considered. A "conservative guesstimate" — this antenna averages close to 7.5 dB over a dipole on highband. Not the best for weak-signal performance—but it beats rabbit ears or ribbon line dipoles by a wide margin, and is easily better than many smaller log-yagis and combo antennas of the same or smaller size. The lowband performance is nothing special though. Average gain in the 54 - 108 MHz range, again a guesstimate, would appear to be around 4.5 dB, and there seemed to be a definite "roll-off" at ch 2. I did not have a chance to check out this antenna's response on the FM band—but any small FM log yagi (including Archer's own 15-1636) would outperform this wideband design.

In summary, major advantage of the V-185 is its transportability. It is fairly cheap for the moderate gain and wideband coverage involved—and it might serve DXers well as a "search" antenna or a back-up array for times when your main VHF TV DX antenna is not in working order. Though it does not have the nulls or back rejection needed for best DXing performance, it should outperform simple antennas such as rabbit ears or quad loops in most Eskip openings. It has what looks to be just enough gain to offer you a good sampling of signals when conditions are "up." It is hardly anything like a high-end super duper log yagi or cut-channel when it comes to weak signal performance; but in all, not too bad—for what was expected to be a mediocre antenna.



PRODUCT REVIEW *** BY: JIM McIVER ***

From The STAFF

(CONTINUED FROM PAGE 2)

COLUMN NEWS...INTERNATIONAL NOTES, TV STATISTICS, and NORTHERN FM DX were not on hand as we go to press. We've had no word as to the status of the first two columns from their editors for many months. Ron and Bob, please take note: if we don't hear from you by the December issue deadline (November 20), we'll have to ask for new volunteers, or cancel the columns owing to apparent lack of interest.

A BRITISH SUPER-ANTENNA?...Longtime WFTDAer John Sulak has sent word about what sounds like a very interesting FM antenna design—although it almost sounds too good to be true. Ron Smith Aerials of Luton, ENGLAND is marketing a model with claimed specs of 19.2 dB forward gain, with 38.6 dB front-to-back ratio, 15.0 degree "acceptor angle" (beamwidth), 134 inches (3.4 metres) long, with three levels of directors, a "round loop dipole" and what seems to be a some type of screen reflector on the rear of the boom. Height of the complex array is about 33 inches (about 0.84 metre). There IS a North American distributor for this highly unusual array, NAIM AUDIO North America, Inc., 1748 N. Sedgewick St., Chicago IL 60614. Offhand, the claimed specs seem a bit "sweet," (especially that gain figure!). Most antennas are measured against a half-wave reference dipole under carefully controlled conditions, but the English company may be using an isotropic equivalent, which inflates forward gain by more than 2 dB. Thanks, John, for whetting our curiosity! On paper at least, this array sounds like it would outperform a stack of Stereo Probe 9's! We are trying to get more information about this one, and a report may appear in an upcoming issue.

SO LONG, AND THANKS FOR ALL THE PLUGS...We've got to thank some very nice folks for promoting WFTDA in print recent weeks. Member Karl Zuk, in his October "American Bandscan" column in MONITORING TIMES, mentions the club and the wave of enthusiasm for homebrew selectivity improvements fostered by BILL NIENAJADYL's work with filters as reported in the VUD. POPULAR COMMUNICATIONS' November issue carries a recommendation on WFTDA in their "Mailbag" section. MT and POP'COMM are the only wide-circulation professional magazines featuring monthly coverage of shortwave DXing, scanners, specialty monitoring, and personal communications. You can find them at your local bookstore, usually next to the ham, audio, and computer magazines. Two radio hobby publications have also carried recent mention of WFTDA. THE LINK, a VHF amateur radio magazine, carried a piece on WFTDA and DXing after seeing a television news story about a meteorologist's TV DX hobby; and the National Radio Club's DX NEWS, considered by many to be one of the best DX hobby publications (NRC's specialty is primarily the mediumwave AM broadcast band—and they've been publishing since 1933!), carried a mention of WFTDA in their FM column. These publications certainly must have a large and very enthusiastic readership, going by the small flood of requests for information on the club lately!